GM Splits IT Services Work.



# **IERW**

### Users Stick With Salesforce.com Despite Interruptions in Service

But some seek amends for outages

BY MARC L. SOROINI For the second time in just over a month, users of Sales force com Inc 's hosted CPM system faced service interruptions, leading some to question whether the vendor is doing enough to make amends for

The San Francisco-based CRM and application services provider acknowledged the glitch last Monday kurt marke after a major crush in December that was caused by a databaserelated problem. "The system is running normally now," said Chief Strategist Bruce Francis "We know that what our customers want most is continued improvements in reliability and availability, and we are always

working on that." Although none of the half-dozen users interviewed said the outages were causing them to consider dumping the

vendor, a couple of them suggested actions that Salesforce.com, page 12

#### Banks Not Depositing Linux in Data Centers BY PRIC LAI runs only a few application

Linux proponents wish there were more banks like Key-Bank. The Cleveland-based institution is in the mider of a multiyear upgrade to Limax. and by 2008 it expects the open-source operating system to be running on about one in seven of its servers - many of them with mission-

critical applications. But Union Bank of California NA in San Francisco is the more typical example: Apart from scattered fileand-print and Web servers, it

monitoring tools on Linux "We haven't launched any true business applications on Linux yet," said Rick Curry. vice president of infrastruc ture engineering at Union Bank. "Most of us [in the banking industry) are still kicking the tires."

In contrast with broken ages, many of which were quick to embrace the use of Linux and other open-source technologies, 11.S. banks have been downright lag-Linux, page 12

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### **Pulls Together Rival Vendors** Sets short contract lengths, standards

for IT processes

In awarding billions of dollars worth of IT outsourcing contracts last week, General Motors Corp. did three thines. that may have ramifications for many other users: It officially adopted a multisourcing strategy, it set relatively short contract lengths, and it insisted that the chosen vendors adhere to a set of standards it defined for IT processes.

GM began parceling out what could amount to almost \$15 billion worth of IT work over the next five years, picking six vendors that will split about half of the projected total. Electronic Data Systems Corp. will remain GM's lareest outsourcing vendor, with



\$3.8 billion in new contracts. The other winning vendors include Hewlett-Packard Co., IBM, Cappemini, Compunyare Corp's Covisint Inc subsidiary and India-based offshore services firm Wipro Ltd. But the numbers are only a small part of the story. GM

has spent the past two years working to bring together the various vendors and get them to agree to follow similar opcrating procedures. CIO Ralph Savernda said In the resulting contracts, the automaker see standards for about 40 IT proc-

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Tool Kits...

the Sarbenes-Ordey Act is a never-ending rncess. Thomas Hoffman and Heat n identify the technologies that ompliance was after was after was

STORIES BEGIN ON PAGES 21 AND 26.



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Linux, page 12

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# GM Splits IT Services Work, **Pulls Together Rival Vendors**

Sets short contract lengths, standards for IT processes

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IT Assembly Line

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# Tool Kits FOR

ing with regulatory mandates like the Sarbanes-Oxiev Act is a never-ending process. Thomas Hoffman and Heather stein identify the technologies that leading companies are choosing to ensur ance year after year after year.

STORIES REGIN ON PAGES 21 AND 26.



How does Xerox Global Services manage millions of office devices for its customers? Their largest application runs on new SQL Server\* 2005 64-bit running on Windows Server\* 2003, which provides 99.999% uptime? See how at microsoft.com/bigdata









# IT ALERT:

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# ONLINE

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Are Employers Looking for You? CANCERS: In the year ahead, an improving IT hiring market is likely to favor job seekers with the most highly developed technical and soft skills, says Robert Half Technology's Katherine Scenger Lee.

3G Wireless on Mac OS X MOBILE/WIRELESS: Columnist Yuval Koss-

ovsky connects his PowerBook to the Internet via a 3G PC card and then ventures into the unknown by trying a Bluetooth-to-cellphone-to-GPRS route. (\*) Quicklink a\*7850 Corol Stuff

COOL STUIT
MANDMARK Read Computerworld's Cool
Stuff blog to keep up with the latest and
greatest technology trends, ranging from
iPod accessories to most-have XP utilities.

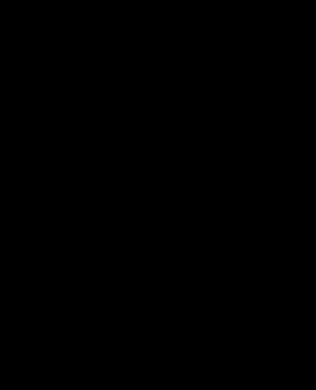
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QuickLink a7940

Cool Stuff HARDWARE: Read Computerworld's Cool Stuff blog to keep up with the latest and greatest technology trends, ranging from Pod accessories to must-have XP utilities.

O Take this week's Quickfoll at envirusionsputerworks.

ONLINE DEPARTMENTS

Breaking Nours. Knowledge Centers

The Waterloo, Ontario-based vendor also criticized NTP

U.K. representatives at the lohave objected to Migrosoft Corp.'s request to fast-track road specification that sold let developers directly am applications for its rork using the Cogramming language. A pay and with the ISO by the U.K.

statives said that the al is too dissimilar from e ISO's current Coo standard zilla Release Adds

Security Updates Mozilla Corp. has released a new ion of its Firefex browser na critical security on es and several stability fores that address problems that can slow the performance of some one. The eight security fract in Version 1.5.0.1 of the brow have been cumulatively rated as "highly critical" by Coponhage

ed Securio because some ld let hackers gain centrol o an unpatched PC. **BM Courts Russian** Software Developers IBM has bounched an effort to una its middle

re. As part of the initiative of its technical respe program. The program helps oad source code and obtain access to information on IBM ware and hardware, as well

#### as Liner and Jose SGI Names CEO

After \$28M Loss Silicon Graphics Inc., named a one chairman, CEO and president at the same time it rec a \$28 million third-quarter loss. Donnis McKenne, former CEO rately held SCP Global relogies Inc. in Boise, Ide ces Robert Bishop, who eld the posts since 1999 on will become board vice

# ATDEADLINE Parties Maneuvering in U.S. Objects to BlackBerry Legal Dispute

Filings argue merits of bid to shutter service: feds issue new patent ruling

MID A fluery of legal filines in the BlackBerry parentunfringement case. the U.S. Patens and Trademark Office (PTO) last week issued a preliminary ruling rejecting the validity of another of the windess comeil percents that are at the heart of the case. The ruling followed similar

decisions on several other patents held by Arlington Va.-based NTP Inc., which is seeking an injunction against continued operation of the BlackBerry service in the U.S. by Research In Motion Ltd.

But Todd Kort, a Gartner Inc. analyst, said it could take a same or so for the PTO to formally invalidate all of NTP's potents. Because the federal judge overseeing NTP's lawsun against RIM has said be won't hold up the case while the patents are re-examined. Kort expects the PTO's pre-

liminary rulings to prompt

NTP to bargain harder for an upfront financial settlement that would prevent any Black-Berry service disruptions. Last week, though NTP officials vowed to contest the PTO's rejection of the compamade notices obsime "Mades not

rolling over on this and playing dead," said NTP attorney James Wallace Jr. via e-mail "This is going to be reversed."

looming on NTP's injunction ryonest, the natent-holding firm and RIM filed memorandums in U.S. District Court in Richmond, Va. The U.S.

Department of Justice also weighed in with a brief arruine against an injunction In its memorandum, NTP demanded a payment of nearly \$126 million from PIM to cover lost licensing fees. RIM asked Judge James

Spencer to grant a new trial on the question of damages. Key Developments in Patent Dispute

Supreme Court and

E won't review the

at AUS arrest d will pay NTP up court declines to recon to \$450 million to sider a decision unhold settle the patent ing the original patent infrancement refers

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er The sales on the RM-MTE race said be wen't hold on condition while NTP's scope and huma

intringement ruling two sides ble tine ce of a Feb. 24

for supporting exemptions for sovernment and emergency workers from an injunction against BlackBerry usage, saying that many doctors and hospital staffers would be left out under that scenario The DOI said that a court ordered shutdown of the BlackBerry service could burn. per communications during emergencies and that it might not be technically feasible to keep government users connected to the service while cutting off others. The only workable solution, it added. might be to issue an injunction that blocked only new sales of BlackBerry devices Kort said RIM officials told him that he the middle of this week the company will release details about a BlackBerry software work-around it has developed in case Judge Spencer does issue an injunction

The CIO at a large company in the construction industry that has about 500 Black Berry users said installing a work around would be less painful than coning with a shutdown of RIM's service. Converting to another wireless technology would pose "a terrible burden on setup and user training. said the CIO, who asked not to he identified 1

### SAP Launches First Piece of Hosted CRM Service

System integrated with back-office ERP application

BY MARC L. SON SAP AG last week launched the initial piece of its first hosted CRM service an ondemand sales force automation system

The full offering, called SAP CRM On Demand, will add hosted marketing and services applications to the sales system later this year. The hosted software runs on IBM servers with the DB2 database

Beta site Du Pont Co. in Wilmington, Del., has already deployed the sales force sure mation service, called Sales

On Demand, in its global operations, said Michael Michlow, ich, director of marketing and sales for Du Pont IT.

Without offering specifics of the implementation, Michlevich said Du Pont is using the service to complement its packaged CRM systems. He declined to name the suppliers of those systems.

Common Processes The Sales On Demand service offers a common set of busi-

ness processes for Du Pont's sales force, a significant poption of which relies on manual processes. Michlovich said. Over the long term, he said. Du Pont hopes to integrate the hosted system with its SAP

ERP software and retire some CRM applications Peter Graf, executive vice

president of SAP product manketing, described SAP CRM On Demand as a stripped down, easy-to-use version of the existing SAP CRM suite The service will offer out-ofthe-box integration with SAP's ERP applications, he said

Looking to sovid the cornice disruption problems faced by rival Salesforce com Inc. the new service offers an "isolated" tenancy capability. Graf said. With this feature, the whole hosted service won't crash as a result of the problems of a

The service is priced at \$75 per month for each user and

requires a full-year payment. Aaron Nichols, general manarrer of IT at Ottawa-based Canada Post Corp., an SAP ERP and CRM user, predicts that the bosted service will likely he reliable but said then he's not interested in using a. "For a company of our size, with 10,000-plus full-time users, hosted solutions are not on the radar screen," be said. as more applicable to small and medium businesses The bosted service appears

to be aimed at SAP's installed base, which should help the vendor stanch comnetitors' efforts to peach its customers. said Joshua Greenbaum, an analyst at Enterprise Applications Consulting in Berkeley.

Calif

# Newspapers' Exposure of Data Points Out Hidden Risks

Credit card numbers were mistakenly printed, attached to bundles of papers

BY JANGUMAR YLAYAN the newspaper bundles were Incidents such as the date security breach disclosed last week by The Boston Globe and the Worcester Telegram & Garette - which in advertantly stached the credit card numbers of more than 200,000 subscribers to ocwspaper bundles - highlight the unexpected ways in which sensitive oformation can leak out of

The data exposure by the two newspapers hammered home yet again the need for businesses to implement comprobensive policies for securing their information assets and then apply the appropriate controls to mitigate the risk of accidental compromises, acconding to security analysts

**Ways to Lose Data** 

"Given the infinite number of ways business processes are implemented in firms there are potentially an infinite number of ways in which data can be lost," said Arshad Noor CEO of Strong Auth Inc., a compliance management ser-

vices firm in Sunnyvale, Calif. As a result, IT and security managers need to start thinking beyond network and system defenses. Noor said "We have to go back to the core of our systems where the data sits and start securing it out-

ward from there," he said. The Globe and the Telegram & Gazette, a sister publication in Worcester Mass. onnounced that discarded internal reports containing the full credit card numbers of as many as 240,000 subscribers were reused to produce more than 9.000 routing slips for bundles of the Ian, 29 Worces ter Sunday Telegram The bank. 1.100 Telegram & Gazette subscribers who pay by check may also have been exposed when

GET THEM INVOLVED

IT needs to get end uters to make secur a reventy says Frank Hayes, Page 44

sent to retailers and carriers. The two newspapers are owned by The New York Times Co. and use a shared computer system According to officials at the Globe, customer data was mistakenty printed our twice in recent weeks by business office workers at the Telegram & Gazette The reports were then put aside so that the clean side of

the paper could be used for other purposes, leading to the security gaffe The Globe managed to recover about 1,000 of the muting slips after it was alerted to the problem by a store employee, said Alfred Larkin the newspaper's senior vice president of general administration and external offsire Most of

machine

AS/400 line

is/OS Version 5, Release 4,

is the first for the iSeries since

lune 2004. The new System is

servers will use IBM's Power's

dual-core processor, which the

company said delivers up to a

33% increase in performance

over current iSeries models.

a series of IBM moves to bur-

nish the luster of the former

\*From my perspective, I

see they are doing work" to

expand the user base, said

Trevor McCullough, an infor-

mation systems project leader

The updates are the latest in

have been discarded he said After the breach was dis-

covered, the newspapers. modified their business system so it prints only the last four digits of credit and debit card numbers. In addition the Telegram & Gazette stopped its practice of reusing internal reports as routing slips. Larkin said, adding that the Globe

hadn't done that to begin with The breach at the newspapers came just one week after companies in Scattle and Minneapolis disclosed separate data compromises potentially affecting hundreds of thousands of people. Both resulted from the theft of IT gear from

employees' care Other common snafus mentinged by analysts include failing to properly destroy

storage devices leaving confidential reports in conference of security wender Tiper Sysrooms, subways or taxis, stortems lee in Mannael Mass

home PCs, and denstine or meetioning systems that still contain data. In one case last April, a disk drive containing confidential data from the nolice department in Brandenburg, Germany, was auctioned off on eBay Inc 's Web vite for

the continuous of about \$75 It's impossible to implement controls for every eventuality But Roberta Witty, an analyst as Garener Inc., said companies should set up programs for classifying data (see chart) and then apply minimation controls based on the information's sensitivity and the perceived level of risk "luce form doesn't mean you don't not controls own it " she said Also vital is training em ployees on the safe handling of data, said Prat Mouhe, CFO

Companies often fail to see themselves as data brokers. though in a sense they are," Morbe said a

**IBM Upgrades iSeries** line, which runs Windows and Linux, by replacing peo-Servers, Operating System prictary IBM interfaces with Internet SCSI technology. The i5/OS upgrade also Latest move in at Lachine, Onebec-based

footwear maker Genfoot Inc. effort to boost which uses two iSeries sysmidrange systems tems. McCulloneh said IRM has been continually adding BY PATRICK THIRDDEAU applications for the system Last February, IBM initi-IBM last week uperaded the servers and operating system ated a program to provide its in its iSeries line, continuing partners with tools to update its effort to expand the noteniSeries applications via Webtial user base for the midrange based front ends rather than green-screen interfaces. Since The new operating system.

then, nearly 600 applications have been updated and 500 new iSeries applications have been written according to IBM. More than 6,400 applications can now run on the systems, the company said.

Adding Customers IBM said that it added 2,500 iSeries customers last year increasing the total base to

245,000 users. Most of the new customers were small to midsize companies. The new operating system version improves (Series integration with IBM's eSeries

offers improved security and auditing capabilities, including automatic detection of denialof complex attacks said (DA) Beverly Russell, IT director

at E.D. Smith & Sons Ltd., a food products mamufactures in Winona, Ontario, and a beta tester of the new operat ing system, said she is pleased with the new storage eanabilities and its ability to write to disk instead of tape. The new fentures can speed backup operations and open the door to the possibility of electronically sending backups to the company's disaster recovery

site sharald Russell, who is also president of the Chicago-based (Series user group Common said that IBM has "definitely done a lot to energize the is and attract new (indepen dent software vendors | and

The four new servers range from a single-processor system to one that can support up

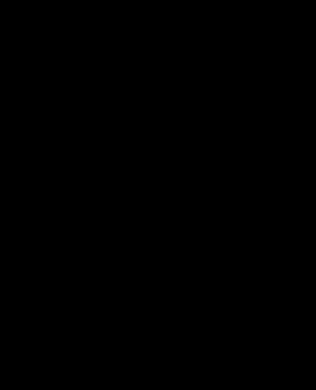
GM's new line of Genes syste to 64 processors. The systems

are priced from \$11.995 for the low-end Model 520 to the million-dollar range for the hteh-end Model 595, said Jim Herring, director of product management and business oncrations for the iSeries Jean Bogman, an analysi at Framingham, Mass-hassyl

market research company IDC, said users are increasingly using the iSeries to manage networks of iSeries and Windows and Linux-based xSeries machines.

"What they are doine is leveraging the system management capabilities of this thing and using it to manage multiple Windows workloads."

said Bozman.



Data Classes

### Newspapers' Exposure of Data Points Out Hidden Risks Credit card numbers were mistakenly

printed, attached to bundles of papers

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The data exposure by the two newspapers harmoned home yet again the need for businesses to implement comprobonsive policies for securing their information assets and then apply the appropriate controls to minigate the risk of accidental compromises according to security analysts.

Ways to Lose Data Given the infinite number of

ways business processes are implemented in Serve there are potentially an infinite number of ways in which date can be lost," said Arshad Noor, CEO of Strong Auth Inc. n compliance management yes

vices firm in Sunnyvale. Calif. As a result 1T and security managers poul to stury think ing beyond network and system defences Neuronal TWO have to go back to the core of our systems where the data sits and start securing it out

ward from there," he said. The Globe and the Telegram & Gazette, a sister publication in Worsester Mass, announced that discarded internal reports containing the full credit card numbers of as many as 240,000 subscribers were reused to produce more than 9,000 routing slies for bundles of the Jan. 29 Worces rer Sunday Telegram. The bunkrouting information of about 1,100 Telegram & Gazette subscribers who not by check may also have been exposed when

**GET THEM INVOLVED** If needs to get end users to make sucu a priority, says Frank Hayes Page 44

the newspaper burnilles were was to netallers and carriers The two newspapers are owned by The New York Times Co. and use a shored computer system. According to officials at the Globe, customer data was mistakenly printed out twice in recent weeks by business office workers at the Telegram & Gazette The reports were then put aside su that the clean side of

the paper could be used for other purposes, leading to the security gathe. The Globe managed to recover about 1,000 of the routine slips after it was alerted to the problem by a store employee, said Alfred Larkin the newspaper's senior vice president of general administration and external affairs. Most of

have been discarded, he said After the breach u. u. discovered, the new spapers

modified their business says tem so it prints only the last four digits of credit and debit card numbers. In addition, the felociam's Carrette stamped its practice of reusing internal reports as number slips. Lankin said, adding that the Globe hadn't done that to been with The breach at the percent pers came just one week after cumpanies in South and Minnearolis disclosed separate data compromises potentially affecting bundereds of thousand

sands of people. Both resulted from the theft of IT year from emoloyees' cars Other common snafus men tioned by analysis include failing to properly destroy

storage devices, leaving confi dential remove in confusions. ruoms, subways or taxis, stor-

home Pt a and dan grant or auctioning systems that still contam data. In one case last April a disk drive contaming confidential data from the nofive department in Its and onbure German, was auctioned off on elkay Inc.'s Web site for the councilont of about \$35 h's impossible to implement controls for every exemples But Roberta Witts, an analysi at Garrner Inc., said comes mics should not up program. for classifying data two charts and then apply mituration controls based on the enforce matten's sensitivity and the perceived level of risk, "Just form doesn't mean you don't put controls over it." she said. Also vital is training em-

disk instead of tape. The new

operations and open the door

to the possibility of electroni-

cally sending backups to the

company's disaster recusery

Russell, who is also presi-

dent of the Chicago-based

Series user group Common

said that IBM has "delimiteds

i5 and attract new linderen

dent software vendors and

from a single-processor ses-

done a lot to energize the

site she said

features can speed backup

plenses on the safe landling of data said Prot Morche, CEO themselves as data brokers. of security vendor Figur Secthough in a sense they are." tems Inc. in Maynard, Mass. Moohe said >

line, which runs Windows and Linux, by replacing proprietary IBM interfaces with Internet SCSI prehaploov. The if OS upgrade also offers improved security and auditing capabilities, including

beta tester of the new operatto 64 processors. The systems ing system, said she is pleased are priced from \$11,995 for with the new storage carabilithe low-end Model 520 to the ties and its ability to write to million dollar range for the

high-end Model 905 said from Herring, director of product management and business upexistings for the shores. lean Bozman, an analysi at Framingham, Mass, based

market research communs IDC: said users are increase ingly using the iberies to manage networks of iSeries and Windows- and Linux-based

leveraging the system manattement carabilities of this

The four new servers range tem to one that can support up said Burman #

### IBM Upgrades iSeries Servers, Operating System

Latest move in effort to boost midrange systems

BY BATRICK THIRDDE AN IBM last week uperaded the servers and operating system in its iSeries line, continuing its effort to expand the potential user base for the midranee

The new operating system. is/OS Version 5. Release 4. is the first for the iSeries since June 2004. The new System is servers will use IBM's PowerSt dual-core processor, which the company said delivers up to a 33% increase in performance over current iSeries models.

The updates are the latest in a series of IBM moves to burnish the luster of the former AS 400 line

"From my perspective. I see they are doing work" to expand the user base, said Trevor McCullough, an information systems project leader

at Lachine Oneboy-based footwear maker Genfoot Inc. which more than iSeries are tems. McCullough said IBM has been continually adding applications for the system. Last February, IBM initifood products manufacturer ated a program to provide its in Winona, Ontario, and a partners with tools to update

(Cories appellantions sin With based front ends rather than green-screen interfaces. Since then, nearly 600 applications have been updated and 500 new iSeries applications have been written, according to IBM. More than 6,400 arelications can now run on the systems, the company said.

Adding Customers IBM said that it added 2.500 iSeries customers last year. increasing the total base to 245,000 users. Most of the new customers were small to mid-

size companies. The new operating system version improves iSeries integration with IBM's aSeries automatic detection of denial of service attacks said 1884 Beverly Russell, IT director at E.D. Smith & Sons Ltd., a

IBM's new line of Series sys

«Series machines. "What they are doing is thing and using it to manage multiple Windows workloads."

#### FCC Proposes Fining AT&T \$100,000 Federal Com

ATAT Inc. \$100,000 for failing to file an annual report detailing its not with cust v protection regulation FCC charged that AT&T didn't shr with the FCC's Com tery Hetwork Info rules. In a statement, the cosaid it's working with the FCC to metily the mistake

# licrosoft Updates logging Policies

oft Corp. has formed a w notice to deal with reante that of

ir laws. Microsoft's cons ne blogger Zhao Jing late last year prompted outr from many of the company's employees. Under the ne cy, Microsoft will remove as only when given prop tice and only in co on the meterial is fileral

## nantec (Invelle

curity Service lec Corp. plans to offer a umer security service Care Live by Sept -named Genesis, the nev ice will include antivirus were capab om the Horton Is ity suite, system tools for my's S it acquired in its Septe en of WholeSecution

#### icrosoft Moves Two **Groups Into New Unit** rosoft is merging its Ex-

on and real-time coll tion groups into a new unit calle the United Communications Group. The move will alice denent of Microsoft's e-mail with that of other cor ns prestages. Die jest ping, Web conferencing se over IP. Anono Gueta will head the new group.

# **C** ON THE MARK





## **Quit Playing** Hide-and-Seek

... with comprate data, "Search technology is critical to overall business and should be part of an IT infrastructure, just like databases," says John Felahi, vice president of product management at Fast Search & Transfer ASA in Oslo. The company's Fast Enterprise

Search Platform (ESP) software indexes information that's stored in multiple languages and io numerous operating environments and data formats. Felahi says Version 5, due this week, adds support for Documentum and Micro soft SharePoint files and bus improved context-search ca-

pubilities. "For example " he years "it knows 'the' in 'The Who' is part of the name." Most search engines, he claims, will drop the 'the' and botch the search. The Fast ESP upgrade also adds the shility to search through videos and Web services applications, Pricing starts at about \$120,000.

#### **Broadband services** via power lines . . .

could spark new [7 initiati Although consumers will be the most obvious beneficiaries of the nascent market for broadband over power lines (BPL), \*ClOs will get advantages, too," save lim Dondero, vice president of marketing at Current Core munications Group LLC in

Germantown, Md. Dondero claims that branch offices and home-based workers served by BPL technology will get faster upload and download performance than cablemodern users do. Later this year, for example, Current Communications will offer a

two-way, 5MB/sec. BPL service. That will make videoconferencine viable for remote users Dondero ence He adds that BPL debe attractive to unitinies

because of the technology's expected benefits, such as its ability to help determine the bealth of power lines

Wade Malcolm, vice president of power and delivery markets at the Electric Power Research Institute Inc. in Palo Alto, Calif., serees that RPL could be used to predict detect and manage power outages. But, he cautions, the tools being deployed now "are in their relative infancy." In

#### HOT TECHNOLOGY TRENDS. NEW PRODUCT **MEWS AND INDUSTRY BUZZ BY MARK HALL**

addition the views of BPL's value among utilities "are quite diverse." he says. One adopter is TXU Electric Delivery. a subsidiary of Dallas-based TXU Corp. that is beginn a 10-year deal with

Current Communications to offer BPI services to its 2 million customers. Don dero bones that will set of light bulbs over the heads of

#### other utility executives. Restrict your servers to running . . .

... approved apps only. Next week, SecureWave SA in Luxembourg will release its Sanctuary Application Control Server aufturnes which limits the applications that can execute on your Windows servers

to a white list of approved programs "It accures that no malware can penetrate says Dennis

Szerszen, vice president of marketine and corporate development st SecureWave. Sanctuary doesn't eliminate viruses ni worms that may get on your servers, he points out - it just won't let them create havoc. But you can authorize update services from Microsoft Corp., Oracle Corp. and

other software vendors to run on your servers, and you can delegate control to local systems administrators, who can override the policies you set. Pricing starts at \$1,800.

#### The cell phone's ubiquity makes . .

... It ideal for two-factor aut tication. That's the thinking behind Diversinct Corp.'s plan to update its MobiSecure service by month's end. Wally Kowal, vice president of marketing at the Toronto-based



large occapizations - such as banks that want to improve security for online customs ers, or global enterprises that need to tichten access to applications - have found that

handing out discrete hardware tokens to end users is problematic. Smart cards. USB fobs and the like "lust don't work for consumers or many workers." Kowal claims. noting that those items are easily misplaced and some times cumbersome to use But

almost everyone has a cell phone and is comfortable using it Kowal gave software running on cell phones and in Diversinet's data center are syochronized so the Mobi-Secure service always knows the correct one-time password needed for two-factor authentication MobiSecure can handle applications with millions of users, at pricing as

low as \$1 per end user annually. Kowal says. Use your IP networks to back up . . .

... Macintoston, Selaris 10 mm terms and Oracie 10g databases Toronto-based Asigra Inc. is supporting those technologies jo Version 6 of its Televaulting software, which already works with Winds Linux and other systems Eran Farsjun,

Asigra's executive vice president, says the accentless software uses a single instance of a program running on a



devices to a central disk

based storage system over the Internet or IP-based WANs. Available today, the software starts at \$11,250 and allows up to I petabyte of disk-to-disk backup with a single license. TINA BROWN-STEVENSON
PRESIDENT, AETNA INTEGRATED INFORMATICS

SAS gives Aetna

"BARRY

how to use predictive analytics to improve patient outcomes and head off high medical costs.

The first property of the second property of

www.sas.com/aetna

sas

# Vendors Spread the AJAX Gospel

Big-name companies contribute code for open-source development tools

SERS WHO belood sour the growth of Asynchronous lavaScript and XAII (AIAX) programming techniques through grass-noors efforts welcomed last week's news that several consendors have joined forces to promote it to the open-source com-

munity As part of the Open AIAX miniative, IBM, BEA Systems Inc., Borland Software Corp., Novell Inc., Oracle Corp., Red Hat Inc. and other yendors will contribute code for open-source AIAX tools and promote their use for building so-called rich Internet anelica-

Many developers follow the AIAX programming methed which uses lavaScript within the client, to build applications. that don't pool to refeel a Web page every time a user

#### enters or receives new data Helping Developers

T.N Subramaniam, director of technology at RouteOnc LLC in Farmington Hills. Mich., said standard, reusable open-source AIAX tools and support for the programming technique from major vendors would benefit his commany's software development offers. RouteOne, a joint venture of the finance arms of Daimler-

Chrysler AG, Ford Motor Co. General Motors Corn. and Toyota Motor Corp., manages Web-based process ing of credit applications.

#### Correction

The title of Repo Mumby at What as a story in last week's News santon Caro Menders Meet User Demand With BI Tools? He is director of global informahon systems development

The company's developers use AIAX to build Web-based applications whose calculations and business rules user enters on the screen, said

Subramaniam Such applications require a technique like AIAX, and work

on them can be eased further with AIAX tools, he said. "I'm sure an AIAX counterpart to a popular lopen-source development] framework like Struts will increase adoption in the lone run." he said Likewise, Scott Spencer, vice president of engineering at First American Real Estate Solutions LP, said be expects

make it ensign for developers at the Anaheim, Calif-based company to build applications using the programming tech-

PARE. First American which callects and provides access to real estate property records. plans to use AIAX this sour to update a mapping service that

it uses with its real estate anplications "This will result in a cleaner and easier-to-mayieate user interface for our customers."

Spencer said. Tony Bacz, an analyst at New York-based OnStrategies. said the creation of the Onen AIAX coulition signals that erass roots growth of AIAX amone developers has gained enough momentum to force vendors to take notice. "IAIAXI has taken on a life

of its own," he said. "It was a train leaving the station with or without [sendorel."

#### Microsoft Weighs In Microsoft Corp. upped the AIAX ante last year when a said it would support the tech-

nique as an alternative to Windows Presentation Foundation its Vista rich client. Buer said "There was a genuine fear that Microsoft could eventually just co-opt this technology and add its own extensions.

which would ruin one the beaution of ALAX - it rups on every browser," Baer added IBM plans to propose to the Open AJAX group that its AIAX Toolkit Framework be contributed to The Eclipse Foundation and to Mozilla Curn, which oververs desertnoment of the open-source

Firefox With however wild Rod Smith, vice president of emerging technologies at IRM. IBM's framework supports

multiple AIAX runtime tools and can be used to develop and debug applications. In addition, San Mates Calif should Zimbro Inc. on other member of the collaborative, said it will make iss AIAX nuntume tool kir available to the community under Apache and Moville

public licenses. The remaining members of the Open AJAX group include the Dojo Frandation, Google Inc., the Felipse Foundation Laszlo Systems Inc., Mozilla, Openwave Systems Inc., Yahon Inc. and Zend Technologies Ltd .

#### COMPETING OFFERINGS Adobe and filter offer abressmen to the noon source Open A MY took

O www.computerworld.com/

Brocade Communications

open-source AJAX tools to

Systems Inc. plans to boost its prospects by remaking itself from a struggling supplier of hardware to one that offers an expanded mix of switches. software and services Declining revenue and the resignations of its CFO and

chief financial officer over the past year have stressed the company and payment the creation of the new plan. Users interviewed but week

annual that San Incohused Broscade has to find ways to grow its business but said they likely won't turn to the comnamy for software or services. Scott Saunders, director of M1S at Payson Communications Corn in West Palm Beach, Fla. a Brocade cus tumer for six years, said he's not interested in buying such

products from a switch maker "That's not morally the channel you go to for that kind of stuff," he said. "That is the trend, though, because software and services is where

the bucks are, and hardware

TIMELINE: Brocade's Woes

rounces it will restate expe

is such a community own though their switches are still kind of pricey."

Rick Curry, vice president of infrastructure envineering at Union Bank of California NA in San Francisco, said that he isn't likely to purchase storage Brocade, "Ed rather alien with a storage management soluneutral," he said in an e-mail.

Curry expects Brocade to be purchased by a larger vendor. I would predict that Brocade is acquired by a major player in the future, which will make them stronger and nucleion them to be more competitive

with Cisco," he said. Brown-le executives wouldn't

spell out what type of management software and services they expect to bring out over the next year, but the company's latest strategy follows in the footsteps of top storage

vendors such as EMC Corn. and Network Appliance Inc. Late last month. Brocade Chief Technology Officer Dan Crain said the compony wants to increase software and services revenue from Po of its total revenue to 10% over the

next couple of years. Without offering specifies. Crain said Brocade plans to add storage management software created through a mix of internal development and

partnerships. The bulk of the manage-

Struggling Brocade Plans Extreme Makeover ment software will support Brocade's Tapestry intelligent switch platform, he said. Bracade's perfurament plans come after a year of declininc revenue, the resignations of CEO Greg Reves and CFO Timy Canova, the restatement of financial reports and word

of an investigation by the U.S. Securities and Exchange Commission into accounting practices invulving stock options. Grow Schuly on applicat at research firm Storage IO in Stillwater, Minn., said Brocade's move to expand its offerings is not surprising, given its problems and the state of

"I'm not surprised in the Locathar Brocade is looking to shift their business" he said They cannot survive in the current and future market be-

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COMPETING OFFERINGS Adobe and Tibco offer alternatives to the

gies Ltd. 9

## "[AIAXI has taken on a life Struggling Brocade Plans Extreme Makeover

Brocade's Woes Brocade Communications Systems Inc. plans to boost its prospects by remaking itself from a struggling supplier of hardware to one that offers an expanded mix of switches software and services. Declining revenue and the

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# ✓ GET THE FACTS.

SWITCHING FROM RED HAT LINUX TO WINDOWS SERVER WILL SAVE TOMMY HILFIGER AN ESTIMATED 25–30% IN IT COSTS

Our migration to Windows Server" will reduce our fl costs by an estimated 25-30 percent, but that's only the start. Our efforts are improving our competitive advantage. We developed a full e-commerce site within six months, in time for the 2005 holidays, and we'll continue to benefit from compressed product design times and an optimized supply chain." —Eric Singleton. CIO TO MHY 211 HILLETICE R

For these and other third-party findings, go to microsoft.com/getthefacts



#### First Buos in IF Reta Found in Minutes

An independent researche needed just 15 minutes to find the first bug in the Beta 2 preview release of Microsoft Corn's Internet Explorer 7 browser. Californian Tom Forris published his findings just hours after Microsoft released the beta code Right now the but can be exted only to crash the browse but Ferris says it's likely that it could eventually be modified to run unauthorized code.

#### Massachusetts

Names New CIO I muis Patierrez has been sele ed to head the Massachusetts Information Technology Diving and oversee the implements. tion of its controversial Open Document format plan, which is stated to take effect in January 2007. Gutierrez, previously chief technology strategist at the University of Massachusetts Medical School, will assume the nost today, replacing Peter Quinn,

#### who resigned last month. Symantec Hires

Oracle Exec as CIO mantec Corp has parred David Thompson, formerly se vice president and CIO at Oracle Corn. its new CIO effective today. Themeson replaces Mark Egan, who will stay with vantec for about six months to finish work on IT projects. related to last year's purchase of Veritas Software. Thom ned Oracle as part of its coleSoft acquisition.

### Capellas Joins Cisco Board of Directors

Michael Capellas, former pres dent and CFO of MCI loc. has ed the board of directors at Cisco Systems Inc. Cisco did not say what role he will play on the board. Capelles left MCI tast month after a multibilion dollar tion of the company by Verizon Communications Inc. He has also served as president of Hewlett-Packard Co. and chairman and CEO of Compag

# Office Users May Need To Add Software Fixes

#### Microsoft issues notices about patent ruling, says most customers unaffected

last week said that only "a small percenture" of Office users will be required to install a service pack urstate or a software ratch as a result of a patent infringement andement

against the company last lune. But analysts warned the users most likely to be directly affected are large companies that plan to install or currently are deploying either Office XP or Office 2003 bundled with the Microsoft Access database. A U.S. District Court jury in California found last your that code primuraly used in Access

2002 and 2003 infringed upon a potent held by a Guatemalan inventor, Although Microsoft is appealing the ruling, the company last week said that it began sending e-mail notices about the upgrade require ments to corrorate users of Othice on Jan. 20.

Microsoft said customers deploying Office 2003 with Access must install the Service Pack 2 update that it released for the application suite last September, New users of Office XP and Access are required to install a patch.

For many large companies. service pack and patch install lations can be a major head ache because of the extensive testing that's needed before the software can be rolled our as well as the often lengthy deployment process itself. Corporate users "don't want to break what's not broken. said Kevin McGrew, CHOof Tech Track Solutions Inc. on isset management consultancy in Vancouver, British Columbia. McGrew estimated

that for every LOOO PC users an I'l staff must spend a week testing new patches or service packs and then denloy them With its most directly affected customers. Microsoft is

revoch on the uperade issue The company is promising to

indemnify customers from third party claims if they upgrade quickly. But Microsoft also noted that its contracts require users to "immediately" uperade to new nonmfringing software that it releases Existing users who have mixed Office XP or Office 2003 with Access can't ignore the upgrade issue completely. Microsoft is recommending but not requiring that such users uperade their systems That's not enough to prumpe Marc West, ClO at Kansas

City Machaeod HAR Rheek Inc., to rush to upgrade the taxreturn preparation firm's PC's West observers about 120,000 Windows systems in 14,000 offices nationwide, and he said that most already run Office 2003 or Otlice XP Although convincing

customers to install the noninfrincing code "is of value to Microsoft it's not of discovalue to us." West said. "We will most likely continue on

ersion Control



### ---

our normal path unless seen rity issues arise." "Companies have no financial incentive Ito uperadel unless they are going to be financially dinned "McCons said, "Most will just do it at

their uwn pace Microsoft noted that for small businesses, installing a service pack or patch is relatively paintess. It's also less trouble for corporate users if is can be combined with an Office uperade. But analysis said the required additions could dissuade some users on older versions from unterading now

connectable with a new Office 17 release due later this year 9

Sprint Nextel Downsizes IBM Outsourcing Deal Some application developers will return: call center contract also being revamped

#### Sprint Neutel Corp. last week

said it is taking back some of the application development and compare work that it can sourced to IBM in 2004 as part of what was then described as a \$400 million contract over

The two companies are also in the "final stages" of renegotioting a separate deal under which Sprint outsourced management of its customerservice call centers to IBM. according to a spokesmomen for the telecommunications vendor. That agreement, also · covering five years, was said

to be a multibillion-dollar deal when it was announced seeeral months before the soft-

ware services contract was disclosed Last year's merger of Sprint Corp. and Nextel Communications loc led to the amondment of the application entsourcing contract, the Sprint

ment sent via e-mail Richard LeFave, CIO of the combined husiness, came from Nextel. Former Sprint CIO Michael Stout, who oversaw

the contract nevotiations with 1BM, has left the company. LeFave wasn't available

for comment had south that spokeswoman said. She disclosed few details about the changes being made to the software deal but said a rector number of IRM eminlenses working on application development will be offered em-

When the initial agreement was signed, the companies said that about 1,000 Sprint IT workers would transfer to IBM and that the deal was designed to speed up Sprint's delivery of undications and halp it out annual operating costs by

51 hillion in 2004 and 2005 According to Sprint, IBM will still provide application development and maintenance support services under the amended agreement. Spring

itself "will retain full application ownership," including life-cycle management, architecture, system analysis and design responsibilities, the snokeswoman soid

Meanwhile, an IBM spokesman said the vendor plans to issue a statement un its outsourcing relationship with Sprint Nextel in the near future. He declined further comment last week

Eugene Zakhanw, an analyst at Technology Business Research Inc. in Hampton, N.H., said it isn't a hig surprise that Sprint Nextel's management team would seek to alter IT agreements signed prior to the merger. "There's no doubt the rescoping is very complex," he said. "Having said that, it's likely that the transition is not going to be too bumpy."



First Bugs in IE Beta Found in Minutes

needed just 15 minutes to find the first buy in the Seta 2 creow release of Microsoft Corn 'o met Explorer 7 browser. errian Tom Ferris nublic his findings just hours after Mi-crosoft released the beta code. ht now, the bus can be exed only to crash the brow but Ferris says It's likely that it aid eventually be medited to 

#### **Cassachusetts** ames New CIO

Louis Gutterrez has been s ed to head the Massa ation Technology D and oversee the imp n of its controversial O nent format plan, which is ed to take effect in January 07. Gutlerrez, previously ch hnology strategist at the Uni-sity of Massachusetts Medi-School, will assume the post ry, replacing Peter Quinn. resigned last month

#### Symantec Hires Oracle Exec as CIO

stec Corp. has named ice president and CIO at Oracle Corp., its new CIO, effective lark Egan, who will stay wit ntec for about six more to finish work on IT projects related to last year's pure of Veritas Software. The d Oracle as part of its Soft acquisition.

#### Capellas Joins Cisco Board of Directors nt and CEO of MCI Inc., has ed the board of directors at Lisco Systems Inc. Cisco did not say what role he will play or he board. Capellas left MCI last th after a multibilion-dollar tion of the company by es inc. He as also served as president of

on and CEO of Compaq.

# Bugs in E Bota of the Minutes To Add Software Fixes

Microsoft issues notices about patent ruling, says most customers unaffected

ICROSOFT CORR last week said that only "a small nencentage" of Office users will be required to install a service nack undage of a software patch as a result of a patent infringement judgment against the company last lune. But, analysts warned, the users most likely to be directly affected are large companies that plan to install or currently are deploying either Office VII or Office 2003 bundled with the Microsoft Access database A U.S. District Court jury in California found last year that code primarily med in Access 2002 and 2003 infringed upon a patent held by a Guatemalan

inventor. Although Microsoft is appealing the ruling, the company last week said that is began sending e-mail notices about the upgrade requirements to corporate users of Office on Ian. 20. fected customers, Microsoft is

Microsoft said customer deploying Office 2003 with Access must install the Service Pack 2 update that it released for the application suite last Sentember New users of Office XP and Access are required to install a norch For many large companies.

service pack and notch lost al lations can be a major bead. ache because of the extensive testing that's needed before the software can be rolled out. as well as the often lengths deployment process itself Corporate users "don't want to break what's not broken said Kevin McCrow CEO of TechTrack Solutions Inc. an asset management consultancy in Vancouver, British Columbia McGrew estimated that for every L000 PC users. an IT staff must spend a week testing new patches or service packs and then deploy them. With its most directly of

proach on the uperade issue The company is promising to indemnify customers from third-party claims if they upgrade quickly But Microsoft also noted that us contracts require users to "immediately" uperade to new poninfringing software that it releases Existing usors who have mixed Office XP or Office 2003 with Access can't issues the upoyade issue completely.

taking a carrotandarish an

Microsoft is recommending but not requiring, that such users upgrade their systems. That's not enough to prompt Marc West, CIO at Kansas Cuy, Mo.-based H&R Block Inc., to rush to upgrade the taxreturn preparation firm's PCs. West oversees about 120 000 Windows systems in 14,000 offices nationwide, and he said that most already run Office. 2003 or Office XP

Although convincing customers to install the noninfringing code "is of value to Microsoft, it's not of direct value to us," West said. "We

will most likely continue on

our normal nath unless soon

rity issues arise." Companies have no financial incentive (to operade) unless they are going to be financially dinged," McGrew said. \*Most will just do it at their own pace."

Microsoft noted that for small businesses, installing a service pack or patch is relatively painless. It's also less trouble for corporate users if it fice uperade. But analyses said

can be combined with an Ofthe required additions could dissuade some users on older versions from upgrading now, especially with a new Office 12 release due later this year.

itself "will retain full applica-

tion ownership," including

#### Sprint Nextel Downsizes IBM Outsourcing Deal Some application developers will return:

call center contract also being revamped

BY MATT HAMBLEN Sprint Nextel Corp. last week

said it is taking back some of the application development and support work that it outsourced to IBM in 2004 as part of what was then described as a \$400 million contract over five years.

The two companies are also in the "final stages" of renegotiating a separate deal under which Sprint outsourced management of its customerservice call centers to IRM. according to a spokeswoman for the telecommunications vendor. That agreement, also covering five years, was said

when it was announced several months before the software services contract was disclosed. Last year's merger of Spring Corp. and Nextel Communica-

tions Inc. led to the amendment of the application out. sourcing contract, the Sprint spokeswoman said in a statement sent via e-mail Richard LeFave, CIO of the Nextel. Former Sering CIO

combined business, came from Michael Stout, who oversaw the contract perotistions with IBM, has left the company. Lefave wasn't available

for comment last week, the spokeswoman said. She disclosed few details about the changes being made to the to be a multibillion-dollar deal software deal but said a "select number of IRM employees working on application development will be offered employment at Sprint.

When the initial agreement was signed, the companies said that about 1,000 Sprint IT workers would transfer to IRM and that the deal was designed to speed up Sprint's delivery of applications and help it cut annual operating costs by \$1 billion in 2004 and 2005 According to Sprint, IBM will still provide application development and maintenance

support services under the

amended agreement. Soring

life-cycle management, architecture, system analysis and design responsibilities, the spokeswoman said Meanwhile, an IBM spokesman said the vendor plans to issue a statement on its outsourcing relationship with Sprint Nextel in the near future. He declined further comment last week

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THE POSSIBILITIES ARE INFINITE

#### Continued from poor t Linux

mande from because offsystems to core financial data. haves Linux has yet to prove - to many bank IT executives anyway - that in chartered configurations it can scale to match the performance of in-

cumbent mainframes. Even some Linux yearlow concede that the retail bank ing market has been a disac-"There are not hundreds of hanks using Linux, but we are seeing a larger chunk starting to ask the question," said Kim Lorusso, financial services marketing manager at Novell Inc., owner of the SUSE Linex operating system.

#### Staying Put

Mark Greene, vice president of figurcial services strategy at IBM, a major backer of Linux. said the company is experiencine "explosive erough" in sales of servers running the operating system for branch offices. On the other hand "the back office is still lagging," Greene said. \*Banks generally aren't doing a lot around their core main(rame-based systems, It's just a difficult environment to move to anything new."

Curry said Union Bank does plan to port its internal credit-reporting and document management applications, both currently running on IBM Unix servers, over to Linux this year. But the bank expects to keep its primary transactional database on an IBM zSeries 890 mainframe for at One roadblock for Linux

least five more years, he added. is that despite its attractive ripping out and replacing systems that are still working fine isn't an option for many banks. which tend to purch pennies on IT compared with their

cousins on Wall Street. "The economics of banks are hard," said Alenka Great ish, an analyst at Celent Communications LLC, a Boston based consulting firm that focuses on financial services IT issues, "IT projects tend

to hit a glass oriling in terms of size and also extend out in their cycle time."

The heavy merger-andacquisition activity among banks in recent wars has also slowed adoption of I louv Greatish said Instead of using mercers as an opportunity to switch IT systems, banks are generally preoccupied with ensuring that integration work goes smoothly she said

Moreover, banks are naturally risk-averse because of the importance of maintaining concurrent trust concedime to Grealish. "Until it's tried and really true, banks are not going to go there," she said KeyBank is an exception. Dave Seaser, vice president of Unix systems engineering at the KeyCorn unit, said KeyBank bought 100 Intel

hosting, among other things. Oracle databases and IBM's cofeware brand servers running Red "In the last year, Linux has

#### Continued from page 1 Salesforce.com

Salesforce.com could take to mitigate problems caused by downtime.

"When Salesforce.com goes down, everyone in the company is affected," said Tom Kramer, president of Bella Pictures. The San Franciscobased wedding photography company has used Salesforce com for two years, and Kramer said the service has been "in-

strumental' to the company's growth. He said that Bella employees can continue to work due. ine outages that last less than an bour, even if productiv-

ity suffers a bit. On the other hand. Kramer said, outnees lasting two hours or more can be "much more dramatic." He called on Salesforce com-

to notify users of outages that could bet more than 45 min. utes so they can plan "alternative strategies."

#### Making Amends

Kramer acknowledged that financial penalties for outages. would limit Salesforce.com's incentive to sign up major clients, but he suggested that the company offer less-costly reWe haven't launched any true business annlications on Linux vet. Most of us lin the banking industryl are still kicking

the tires

RICK CURRY, WICE PRESIDENT OF DATE OF THE PROPERTY OF THE PARTY OF THE HMON BANK OF CALIFORNIA

Hat Enterprise Linux from Hewlett-Packard Co. last wear The servers are being used to replace Unix systems that are

WebSphere application server

user conference last spring.

The Linux deployment has helped KeyBank keep its own balance sheet healthy, it spent 51 million on Linux servers last war saving about 80% compared with what it had been spending on other systems, Seager said.

The savings have won over KeyBank executives who initially were besitant about the move Scaper added "Telline them Linux was cool or the new thing didn't translate very well," he said, "Saying it saved x percent of our budget translated very well."

Nonetheless, Seager said that KeyBank's core mainframe is under no immediate

However, Graham noted

that his company suffered

outages that lasted from 30

minutes to two hours. And if

the outage that occurred last

Graham said that despite

the performance problems.

hosted CRM is a viable tech-

nology. "The crashes aren't

the product of a fundamen-

tally flawed business model

GuildQuality had experienced

month, "our sales force would

through Salesforce.com

have mutipled," he said.

gone from 'unapproved for use threat of being evicted by a in the building' to our platform of choice," said Seager, The lack of plentiful bankwho spoke about KeyBank's Lineau mises at Bad they bee to

ing applications for Linux also hurts the operating system's prospects, especially since banks trad to buy off the shalf software rather than building it themselves, said Brent Ricenat, assistant vice president of networking services at COCC. an Avon. Conn -based provider

of IT services to community banks and credit unions. The application shortage was cited by one bank IT executive as a reason why she remains "very cautious" about Linux despite the technology's potential for cost savines. Sufficient availability of thirdparty applications and "volume operational monitoring sup port remains to be seen," said the executive, who asked not to be identified.

They Said It

The crashes aren't the product of a funda-mentally flawed business model or product design - they're a result of too much focus on acquiring new users and not enough focus on servicing the users they have

REDER ROAMAN SEESONS CARLOONING TO HE A FORMER SALESSOROF COM CLICADACE

We know that what our customers want most is continued improvements in reliability and availability, and we are always working on that.

STRUCT FRANCIS. CHIEF STRATEFIST SALESFORCE COM-

sponses, such as free training. geted accounting and sales integration assistance or extra canabilities, not because of tickets to the Dreamforce user Salesforce.com outness

"At the very least, they could have acknowledged it, apologized and eredited us a day's worth of downtime for every day that had outpors "said Geoff Graham, president of GuildOualty Inc., an Atlantabased producer of customer surveys for home builders and a former Salesforce com customer

GuildQuality switched from Salesforce.com to a rival hosted system from NetSuite Inc. last February for its taror product design - they're a result of too much focus on acquiring new users and not enough focus on servicing the users they have," he said

Other customers also down pleased the outside notine that to date they have had a neeligible effect on their companies However, some said any deeper problems, such as the loss of key data, would prompt

a closer look at alternatives "What would shake my faith is if something happened to the data," said Frank Tait, vice president of sales at Decision-One Corp., a Devon Paubased provider of IT services and a Salesforce.com user. "The

integrity of the data is my "If you live by the sword you die by it," said Ioshua Greenbaum, an analyst at Enterprise Applications Consult-

ing in Berkeley, Calif. Many users see constant availability of data as a key benefit of hosted systems versus software that runs on-site. Greenbaum said. If that nerception of the hosted concept is broken, then an important reason for using such systems is lost. The promise of hosted systems is that they are "not supposed to entail outages and

downtime," he said.



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Continuous accoss to Intermetion no matter winel. That's submitted Annihibility its wheat your employees, experies and combiness domine wave minde of every deep. But to deliver it flawlessity, you need a meaning plotal infrastructure, redundent explores and drivers networks bein monitored and supported by shifted technical experts at secure facilities. That it seatily what fourcode provides a continuous continuous and appointed by shifted technical experts at secure facilities. That it seatily what fourcode provides are continuous and continuous account of the continuous account of t

As a result, we can offer you a higher level of availability and save your company, on average, 25% versus building the infrastructure yourself. Plan, it's a version markets solding that infrastructure yourself, applications and network while giving you the fluidality to sejast to the changing needs of your beneaus. But basic of all, it has you sprend more three solving business problems and less three solving technical problems.

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# EC Leader Says IT

#### EC Leader Says IT Initiative Isn't Working

E treats an commission President lose Manuel Durao Barroso last week said that the ID-year-old Lisbon Agenda plan to boost the compettiveness of European countries through increased IT introvation has so far failed to more lise coals.

Barroso said Furope still lags behind the U.S. in technical innovation, despite the detailed plan the FC laid out a decade ago and then relating hed last year.

"The original Lisbon strategy had no lack of analysis, no shortage of targets." Burroso said during the Government Leaders forum held here by Mi-

crosoft Corp. "But let's be frank — it did not work." In addition to the ongoing gap between Europe and the U.S., emerging technology companies in Asia are changing the na-

ture of competition, Barnwo said.

"European innovation is just not dynamic enough," he said, adding that memAn International IT News Digest

hers of the European Union need to better target investments while devel

# Senegal Tries to Cut IT

S PALARY NATIONAL IT agency is turning to open-source software in an effort to lower the costs that the country's government has been paying for commercial products.

"We are an underdevelored country."

without enough funding for expensive software," said Tidiane Seek, director of the Agence de Uniformatique de l'Etat

Tinformanque de l'Ear
(ADIE), which is charged
with developing an IT infrastructure for Senegal's
government ministries.
Since the open-source

effort began just over a year ago, the IT agency has started using MySQL. AB's database and has installed Linux on all of its 100 or so servers for file, e-mail and directory services. Seek said last week. He added that the ADIF is in the process of rolling out an open-source ERP pockage from French software start-up Nevedi, which was selected over appli-

cutions from Microsoft.

The povernment also hopes to eventually put open-source software on its 8,000 desktop and laptop PCs.

AMES NCCOLA IDG NEWS SERVICE

Japanese Memory

# Maker Pays \$84M Fine

dynamic RAM prices, the U.S. Department of Bustice announced that week. Elpida is the fourth company to cop a plea as part of the DOS interestination of DRAM price fixing between April 1999 and June 2002. The chip madices — Elpida, Sumsaing Semiconductor Inc., Hynric Semiconductor Inc., Hynric Semiconductor Inc., and June 2002. The Chip madices — Elpida, Sumsaing Semiconductor Inc., Hynric Semiconductor Inc., and Infinite on Technologies AG — have been fined a notal of about \$250 million store the 2004.

The DOJ lifed a two-count felony charge last week in U.S. District Court in San Francisco accusing Elpida of conspiring with the other vendors. The plea deal still must be approved by the court. §

■ GRANT GROSS, IOG NEWS SERVICE

Compiled by Mike Bucken

# Briefly Noted

announced plans to splif its U.K. and international businesses wide separates units. The London-based network services firm's recognization plans also includes the differentiation of the CEO peet held by Francesco Caio, affective April L. The two new units will each have a managing director who reports directly to C&W Chairman Richard Lapthoner.

MANCY GOHRING, IDG NEWS SERVICE

Arameters Lift plans to more than double its workferce in India, Chisa

double its workferce in India, China and the Philippines to about 50,000 ampliques over the next three years. The Hamilton, Bermeds-hased IT services from didn't say how the new hires will be distributed across the libree countries.

. JOHN RIBEIRO, IDG NEWS SERVICE

its Bautte of Mentine of Australia Germany has extended its IT autonoming centract with Unitys Corp. 1 German unit brough the cold 2008. The subset of the central wasn't declosed beyond a description of it as a restlientified—cold intellectual field in the initial pact was signed in Cocentral 2002 and called feel Unitys to modernize and manage the ministry's IT infrastructure.

# Medical Groups Offered Rewards for IT Use

market in Argentina dur

ing 2005, on total sales

of 15.6 billion Acceptance

DESCRIPTION OF THE PROPERTY OF

If of stare data area improve putlent care. Rewards of up to \$150,000 per year will be available to members of a consortium of health care firms formed by the vendors and unveiled last week. The group called the work of the property of the professional of the professional profe

All of the health care providers have agreed to encourage their physicians to use electronic medical record (EMR) technology and other IT clinical systems.

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The pay-for-performance program rewards health care firms that use systematic processes and health information technology to improve the smallity of care. To availity for

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group — the largest in the U.S., with 0.000 physicians — quickly agreed to participate in what he called the first pos-

focuses on the use of IT.

"Advanced IT systems are
the only way to provide the
highest-spolicy care and the
best service for patients," he
added

Permanente is one year into a Sh hillion, two-and-a-half-year project to replace a project to replace a Do-year-old proprietary EMR system with a package from Fpic Systems Corp. on Madison, Wis. By midyeur, the system will hold the

medical data of 2 million patients, Pearl said.
The good of the consortium's founders is to accelerate the adoption of EMRs and the use of automated decision-support tools, and Jef Rideout, Cisco's and vice president of its Internet business solutions group for health care. The idea for the collabora-

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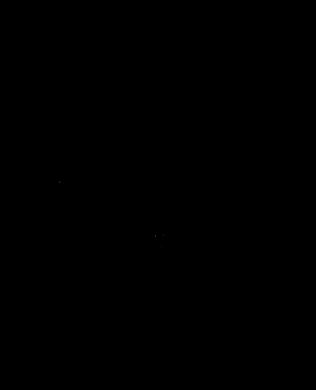
the use of EMRs nationwide, he said.
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of member health care providers.
"We're doing this first and foremest to help people to adopt technology, but Jalsol with the belief that this will lead to improved outcomes, and a better experience for our employees," he said. The rewards will be based on the use of IT in documentation of treatment procedures, cure management and potient calcutation. The vendors will not recommend specific hardness recommend specific hardness recommend to the criteria. Richeout said, Over the long term, the vendors plan to expand the consentium in locations where they have large concentrations of employees and timite smaller physical practices of

IDC analyst Scott Tiazkun agreed that the collaborative is the first pay for performance initiative to focus on IT. But he questioned whether it can spur the use of EMRs by small physician practices.

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# EC Leader Says IT

Initiative Isn't Working UROPEAN COMMISSION President ■ Jose Manuel Durao Barroso Iso week said that the 10-year-old Lisbon Arenda plan to boost the competitiveness of European countries through

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Senegal Tries to Cut IT Costs via Open-Source

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### Japanese Memory Maker Pays \$84M Fine

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Compiled by Mike Bucken

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Medical Groups Offered Rewards for IT Use

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Cisco Systems Inc., Irael Corp. and Oracle Corp. last week said they plan to offer financial rewards to medical groups in Northern California that use IT to share data and improve nations care

Rewards of up to \$150,000 per year will be available to members of a consortium of health care firms formed by the vendors and unveiled last week. The group, called the Silicon Valley Pay for Performance Consortium, includes the three founding IT vendors plus Camino Medical Group Inc., Kaiser Permanente, Palo Alto Medical Clinic Sutter Medical Group Inc. and other large medical practices in Northern California

All of the health care pro viders have agreed to encourare their physicians to use electronic medical record (EMR) technology and other IT clinical systems. The pay-for-performance

program rewards health care firms that use systematic processes and health information technology to improve the quality of care. To qualify for the rewards, the IT systems must meet standards unveiled last week by the Washingtonbased National Committee for Quality Assurance, a nonprofit

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and vice president of its Internet business solutions group for health care. The idea for the collabora-

tion was born when the three firms started working together last fall on a project for the U.S. Department of Health and Human Services to develop a prototype of a national IT in-

frastructure to support the use of FMPs parion wide, he said. Rideout said he expects the program to ensure quality health

care for employees of the three yendors, many of whom are customers of member health care providers. "We're doing this first

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Cable & Wireless PLC last week announced plans to split its U.K. at

MANCY BOHRING, IDG NEWS SERVICE

BY PATRICK THIBODIAU
The rapid growth of Indian
IT firms and strong demand
for skilled workers is patting
pressure on wages in India.
The excalating personnel costs
prompted one major
software vendor, SAP
AG, to start looking elsewhere for programming
talent. In on interview

with Computerworld,
Kiran Karnik, president
of India's National Association of Software
and Service Companies
(Nassoom), spoke about
the rising coats and how his
group is working to address the
problem.

is domand for Indian workers decilining as a result of increasing costs? I wouldn't say so. Costs have been going up, but I think the advantages are so huge that cost is only one of the five-

tors that most companies take into account.

How fast are IT wages increasing in india? At the entry level, it's between 10% and 12% a year. At the middle-management level, it's a little higher, about 15% to 20% (per year) over the last two years. But we see that as a temporary mismatch between

demand and supply.

What can be dose to address that mismatch? Market forces are naturally beginning to act, and you are getting a lot

beginning to act, and you are getting a lot more pecupie going into areas of high demand like IT [and] computer sciences. Nasscom has taken steps to look at the critical problem. It's not so much the absolute numbers [of

the critical problem. It's not so much the absolute numbers for available graduates], but the kinds of skill sets that this industry needs. We are looking at improving curriculum land teaching. It's really a focus on quality in the short term rather than numbers — because numbers by themselves are not the congraint

Aren't those long-term initiatives? How do you solve the immediate problem of double digit wage increases? I'm speaking of the short-term solution. The shortterm fix is to do a six-month bridge course or finishingschool kind of concept. It's not that they lack standards, it's just that the education that they've gone through doesn't quite meet industry needs, quite meet industry needs. What they need is six to eight months of additional work to

get them to where you need them. We see that as the shortterm fix.

What shifts will be taught in those

training programs? On the lbusiness process outsourcing[] side, communication and teamwork – things which you would broadly define as 'soft skills' (fluad) are required in this industry but are not part of the core discipline at the university. Many [students] are very good at technology, but in terms of problem definition and looking at an issue in

gaps.
Second, there are sometimes gaps [in technology training]. They have the basics strong and well, but you need to do some training on the latest technology. Is ternover among middle manage causing problems, and how do ye

causing problems, and how do you deal with that This is the big issue. We are trying to handle that problem thy looking! for lateral moves from other industries. Very often you need somebody who is a good project leader, someone who is able to handle business problems. Second, we are getting more people who are going here [from other countries] because the work is challenging and exciting.

### Dell to Add 5.000 Call Center Workers in India

BY JOHN RIMEROD
Dell Inc., plans to add about
5,000 workers to its Indian
call centers wer the next two
years, CEO Kevin Rollins sold
reporters in Delhi Isss week.
In addition, Rollins sold the
company will start manufacturing PCs in that country
at an undisclosed time and

company will start manufacturing PCs in that country at an undisclosed time and will double the size of its 300-presson product development group in India over the next two years.

Dell's Indian operation currently develops and tests enterptise products, including servers and storage systems, be said. The company will increase its Indian call center saff from 10000 to about 15,000 by 2008, Rollins said. The expansion will include the opening of a fourth Indian call center in Gurgaoo, which is near Delhi. It will open by the end of this year and em-

workers, according to Dell.
Dell opened its first global
customer contact center in
Banqualore in 2001 and has
since added call centers in
Hyderabad and Mohali.
India is the only country in
Dell's 30-site customer contact network that supports all
wordwide ecographic projons.

according to the company.

Ribeiro writes for a News Service.



Buyer's Laberatory Inc. performed three mortes et rigerous testing of the leading color printles. Ricoli's color printer line proved to be the best of the best.

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RICOH ...

### DON TENNANT

# Mass Sweating

SAW IT the moment my 14-year-old daughter and I walked out of our local Home Depot here in Massachusetts a couple of Saturdays ago. There in the parking lot was my prized. pristine Miata, with a big dent in the right rear fender. Given that the dent wasn't there when we walked into the Home Depot, I wasn't too pleased.

You know what goes through your mind The hassle. The expense. The cowardice and selfishness of the person who hit it and then didn't bother to leave a note. I was as they cay fit to be tied

I was still furning about it that evening when I was watching the news nn TV. Until, that is, I watched a mother and father being interviewed about their daughter being struck and killed by a hit-and-run

driver. She was 14. I was, rightfully, even more anery at myself than I had been at the person who put a dent in my car. A stupid dent. It was a pretty good reminder of how important it is not to swow the small stuff

It's a reminder that a lot of people in Massachusetts would do well to ponder. Especially today, as Louis Gutierrez assumes his position as the state's CIO and takes a seat than had gotten too hot for his predecessor, Peter Quinn, who resigned last

What stoked the fire under that seat was, of all things, Massachuserre' plan to adopt the XML-based Open-Document format as a standard for saving files. To give you an idea of what's at stake here, Sun's StarOffice productivity suite and IBM's Workplace support OpenDocument: Microsoft Office does not.

Massachusetts is the first major government entity in the U.S. to Isanch an OpenDocument plan - a troubling precedent for Microsoft and others who oppose the format. So, what was supposed to



he a healthy debate on technology standards collapsed into a tawdry political battle. And Ouinn, who was leading the OpenDocument charge, found himself in the political cross

It got to the point where an investigation was launched into out-nf-state trips taken hy Quinn to speak at technology conferences. prompted by guestions from The

Globe reported that Quinn was found to have done nothing wrone But by then Ouinn had had it "Enough is enough," Quinn told Computerworld's Carol Sliwa in a recent interview. The investigation definitely took its toll on me from

Boston Globe about the propriety of such trips. When it was over, the

a personal standpoint and a family

standpoint." Now it's Gutierrez in the spotlight A 2002 Computerworld Premier 100 bonoree and a widely respected IT leader, this guy is a class act. A lot of my colleagues and I have had the pleasure of working with him on a number of occasions over the past several years, and I can tell you there's just no finer geotleman or more canable IT professional who could have been called upon to serve at such a turbulent time

If anyone can calm things down and get Massachusetts' IT prinrities back oo track, it's Gutierrez. His calm, reasoned bearing, his intellect and his demonstrated capacity to build consensus (Gutierrez oversaw the development of the state's highly praised Virtual Gateway unline portal, which integrated information from the disparate systems of 16 state apencies) will serve him and the

state's residents well With Gutierrez in his new position. other state governments will have any number of reasons to emulate Massachusetts. Sweating over a dentin-the-Miata file format shouldn't be one of them #



### BRUCE A. STEWART Timeto

## Think About Your Legacy

66 TO MORE outsourcing!" It's the recurring cry of today's IT department. Why shouldn't we outsource? We're all getting older; it's cetting harder to find people to replace us. Skills such as PL/L IMS and the like haven't been taught for years

What holds us back are the decrepit systems that are - our friends They're our reason for coming into work, our reason for enjoying this IT life. "My" system - the one I had a hand in building all those years aro. So why aren't we doing the right thing? Why do we hang on to these

relics of the past to the point where finding a sourcing partner to deal with them starts to look more attractive?

"The psers will never pay to rewrite these," we say. But when was the lost time anyone actually saked them? And it nsers were selved were they asked abou a husiness decision. ar were they told about obsolete programming languages dead databases and

hot new technologies? When we ask about replacing our frieods and try to be convine

ing by talking about our issues, we're setting ourselves up for a "no." But then, that's what we really wanted anyway For the past two decades, India and other outsourcing destinations have been churning out millions of graduates who have been trained in

both old technologies and the latest ones. Meanwhile, in North America. the number of people who prepare for a life in IT continues to fall. We stopped training people to look after all the legacy code that runs our companies, and we didn't think about what the outcome would look like. It looks like we're trying to solve a human resources problem overseas. That's what it looks like. The typical U.S. IT shop been't done anything interesting in years. Consultants have done all the heavy lifting

No wonder the top third of graduator go to work in the vendor community! To keep IT jobs at home, it's going to take more than outery and protest. It's going to take hard-nosed action. We're soins to have to put our old friends to sleep. Here's what we have to do to

take chance First, we must do serious analysis. What is the true quality of the existing application portfolio? What does the average minor change cost? What's the minimum number of people who have the required skills we'll need if we keep this system? How well does this system fit the work being done to the business today? If it dido't exist, would we build it - or something very different? This analysis is not needed only on a system-by-system basis; it must also look

across the infrastructure to see where savines could be found through change. Second, we must sell change. We must talk in terms of business productivity, execution gosts, increased responsiveness, information density and usage effects. We need to be the ones who put a pro forma business case

down for an architected outcome Third, we must execute, and do it ourselves. That will require reorganizing, learning and managing risk, Only by taking on the job - not by hiring the consultants - will we be credible

rebuilders. The choice is ours: Leave the next generation with the next generation of systems, or leave them to India What is your legacy going to be?

IOHN D. HALAMKA

## Goodbye to Blanche

DuBois N TENNESSEE WILLIAMS: A Streetcar Named Desire Blanche DuBois comments, "I have always depended on the kindness of strangers." The Internet has worked on the principle that you can generally trust anonymous users but can also isolate technological bad actors with firewalls,

proxy servers and intrusion detection.

Alas, those days are gone, and end-

to-end security now requires complete

control over everything. from the keyboard to the hard drives spinning in the data center. We can no longer depend on the kindness of strangers on the Internet. We can't even trust our friends and co-workers

logical malfeasance. Desconess Medical Center and Harvard Medical School, over half our belo desk calls are related to spream. Troign borses and keystroke loggers planted on desktops from infected

Web sites Wireless screen points need to be secured with usernames and passwords for both employees and guests to prevent virus-infected

laptops from launching denial-of-service attacks. Visiting faculty members who play their laptons into the wired network could introduce maladies to other users. Employees who use home computers (beyond the control of our antivirus program) to access Web-based resources risk having their evidencials

intercented by encurars In a hostile environment where 2 million spam messages are filtered every day and backers attack every seven seconds, what are we to do? We could thwart keystroke loseers by using hardware tokens with con-

to keep us safe from techno

dress on the network. We could require registration of all Ethernet card MAC addresses before alleaving wired or window connections to the network (MAC addresses con be spoofed, so this is of only limited ef-

network access by visiting

We could implement

onies such as Cisco Secu-

desktops for patches and

antivirus software, based

on central policies before

pranting them as 10 ad-

stateful inspection technol-

rity Agent, which examines

family

fectiveness.) We could require an SSL VPN for all remote access, enabling us to have a single point of control and filtering for all Internet-based applications.

About the only way to defeat many attacks would be a throwback to 1970s serial terminals and mainfeames - un-

modifiable thin-client devices connected to a Citrix application server. Each byte flowing would be centrally controlled and the desktop would be locked down With all these measures, we might end up with a system so secure that no one could use it. The most secure li-

stantly changing PINs. brary in the world is the one that means We could use 802.1x allows books to be checked out. technologies to require cre-Imagine this scenario: A clinician dentials for every device. needs critical data about a dving papreventine unsanctioned

tient. The clinician fumbles with a hardware token and mistynes his eight. character alphanumeric mixed-case non-English password and token PIN three times and is locked out for five minutes. He grabs a wireless laptop and asks another clinician to authenticate because he's locked out. Seconds now as the lartop uses EAP-FAST authentication and a supplicant checks for antivirus undates and entebes. A new Microsoft patch is missing, and the clinician is denied access until it's downloaded and the machine is rehoused. Then the antivirus software scans to

ensure that the modified desktop is uninfected. After five minutes, the clinician gets access to the needed data Although this example is a bit astreme, it does illustrate that security is

a balance between complete protection and case of me Security is one of my top priorities in 2006. I can no longer trust internal

users or home access via the Internet The balance needs to swing toward protection ower from earn of use Alex Blanche, we can no longer depend on the kindness of anyone.

### **WANT DUR OPINION?**

More columnists and limbs to archives of provious columns are on our Web size

#### Open-source Risks Were Overstated THE RISKS regarding openlieve there have been any cases sterce software irrenses to the contrary described in "I my and Onley or

the Open-source Range" [Dec. 5] do exist but the same rule asset with commercial software. Any developer who would use someone else's code without checking the incense would also likely nona commercial library and accume that it was paid for and therefore

available to be distributed And technically, but importantly, on one is forced to convert his code to free/open-source because he shipped a product with "coercively" licensed thirdparty software; he always has the option of shipping a patched

version without said third-corty software. One accidental shipment is unlikely to be judged a serious violation, and I don't be-

Larry West Software engineer, San Diego

Protect Yourself Or Government Will

JAIKUMAR VIJAYAN'S article "Focus on Comple Could Weaken Info Security Experts Warn\* [Nov. 21] is well stated. However, the increasing number of acts such as Sarbanes-

Oxley, Gramm-Leach-Bidey and HIPAA is also testimony to the failures of information security. Logislators, led by their constituents, are saying to business and government. "If you won't effectively protect yourselves and others that was seems when

tanky, we will force you to do it." Many information security protecunoals fail to understand that as long as we have unknown welnerabilities, uncontrolled known vulnerabilities and intelligent un known enemies wouldwide read-In affect or then it is the enemore

who control and manage the risks, not the defenders. Donn B. Parker, CISSP Los Altos, Calif.

#### Health Exchange Needs Security HE STORY on Indiana Health

THE STORT CATALOGE INC. ("Indiana Health Net Breaks New Ground on E-records," Nov. 281 described a valuable initiative to integrate systems and exchange data for the benefit of the health providers, insurers and presum ably patients as well

Houseast the story second and to address the security process or HPAA implications. One can only hope that these matters were indeed addressed and that the owner! included encryption, authentication, to all contracts and sources contracts Alan Merce

Director, technology interpretion. Bulblamer. COMPUTERWORLD welcomes comments from its readers. Letters

will be existed for brevely and clarity. They should be addressed to James Eckle, letters editor, Computer world PO Box 9171, 1 Sonery Street Framingham, Mass, 01701 Fax. (508) 879-4843. E-mail Internal computational com Include an address and phone number for an mediate verification

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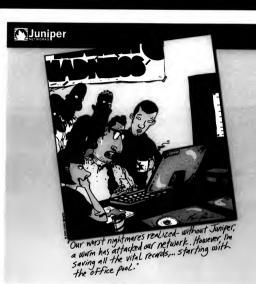
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Self-Taught

Researchers like Stanford University's Sebastion There are driving machine learning into the mainstream - liter ally PAGE 28

SECURITY MANAGER'S JOURNAL Implementing Change Is Never Plug-and-Play Problems arise rapidly as Mathias Thurman's digital rights management project gets under way

IT Struggles With Climate Change In the race to track elobal-warming transfer technology just can't keep up. Faster net works and more computing power are needed to address this monumental task, say two

experts Page 27

OR MANY corporate executives, exemply ing with the Sarbanes-Oxiev Act of 2002 is a lot like cleaning out a cluttered basement - dreaded and tedious, but necessary, That's because the federal law requires business managers to continually identify, monitor and verify that they have effective

financial controls in place Now that most large publicly held firms have gone through at least one round of meeting these so-called Section 404 requirements, many executives have recognized the need to automate those controls process-

BY THOMAS HOFFMAN es in order to make those activities repeatable and cheaper to Time Warner Inc. and The Dow Chemical Co. each devoted hundreds of thousands of man-hours in 2004

to manually identifying, evaluating and testing their business and IT controls "We have to figure out how to make [Section 404 controls verification] more efficient," says Ron Edmonds, global accounting director at the Midland

Mich.-based chemical manufacturer Some companies have invested in software to belo them automate their controls activities. Here's a look at five companies that have taken the plunge, the functionality they like best in the third-party com ance packages they each use and what features they'd like to add .........

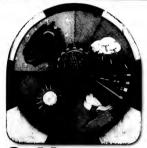
## CONSTELLATION ENERGY Baltimore Charter: Generator, supplier and distributor of

 Madules in use: BindView Admin for Windows and Exchange 7.2, BindView Control for Windows and Active Directory and Exchange 8.0, BindView Control for Oracle Database 8.1, BindView Control for Unix 8.0 and BindView Compliance Center 2.1, from BindView Development Corp. (acquired last

month by Symantec Corp.)

 Remirements: In 1999, Constellation Energy began using a suite of network monitoring software called BindView Control to determine which of its servers and applications various employees had access to. The software identifies financial information that resides on those applications and servers to help Constellation Energy determine whether it has the appropriate controls and so-called segregation of duties in place. That allows it to restrict access to that information in order to meet the requirements of regulations such as the Sarbanes-Oxley Act and the Health Insurance Portability and Accountability Act.

Continued on page 24



Computerworld looks at how five companies chose tools to help in the never-ending process of regulatory compliance.





## Continued from pose 21

\* How the software works: The BindView Control modules examine access-control lists for Constellation Energy's Oracle, Windows and Unix systems. "Some of the things we're looking for are out only

who has access to the servers but the applications on that server as well," says John Petruzzi, director of enterprise security at Constellation Energy Meanwhile, the Compliance Center module takes a

snapshot of the company's FT controls environment to indicate "where we need to focus our attention" in terms of remediation and testing, says Petruzzi. ■ Customization required: BindView's professions services division customized the reporting capabilities for Constellation Energy.

\* Additional server/storage required: The storage reguirements for the reports produced by the BindView systems are nominal, say Perruzza canging from a few kilobytes to just under a megabyte. Since the Bind-View tools need to query each machine in Constellation Energy's IT environment reports are acheduled to run during compeak hours to avoid taking away computing cycles from other business processes.

· Favorite functionality: The ability to take a "snap shot" of Constellation Energy's IT environment from a manager's desiston says Pernazzi Dosired functionality: The ability to monitor multi-

ple IT-related regulations from a single viewpoint in order to avoid duplicating work. Sympates is adding that feature to the BindView Policy & Compliance Management software in the first quarter. ..........

## CHICAGO MERCANTILE EXCHANGE

• Charter: Futures exchange and clearinghouse \* Modules In use: Movaris Certainty 8.0, from Mova-

ris Inc. in Cupertino, Calif. smoots: The exchange began using Movaris Certainty 8.0 to help it meet several Sarbanes-Oxlevrelated compliance requirements. For starters, the software enabled the CME to migrate all of its compliance documents into the Movaris system to create a single-source compliance data model, an approach that makes it easier for the exchange to store and

track all Sarbanes-Oxley compliance documentation. # How the software works: Movaris Certainty allows the CME to document, report and review its internal controls. The software, which sits on an Oracle database, provides the CME with a single-source data model for all of its Sarbanes-Oxley compliance data. Movaris also provided the CME with a five

question survey to pose to its process-control owners, which the CME's internal audit group aggregated and allowed us to focus on the exceptions," says John Verburgt, the CME's associate director of compliance, . Customization required: The CME customized the

system "around the personality of the way we work." says Verburgt. The Chicago-based exchange made simple changes to the software, such as tweaking the is naturate used in the system and adding logos. "Nothing significant in terms of effort," says Verburgt,

Additional survers/storage required: None.
 Favorite functionality: The shility for process.

control owners to make use of workflow canabilities. to review, examine and test internal controls, says Verburgt. Also, the ability to add user-defined configuration fields without any customization

· Functionality desired: A financial corerol data mart, which would provide the CMF's executives with graphical views of the performance of financial control operations. Movaris has incorporated these capabilities into Movaris 9.0, and the exchange plans to implement the system by April, says Verburgt,

## FIRSTENERRY CORP Akron Ohio

a Charter: Diversified energy company · Modulos in use: Certus Governance Suite, from

Certus Software Inc. in Cupertino, Calif. • Requirements: FirstEnergy wanted a software package that could belt it automate the internalcontrols documentation and testing activities in needs to comply with Section 404 of Sarbanes-

Oxley The software it began implementing last lune from Certus enables managers at FirstEnergy to view which business and IT controls they have serves multiple financial systems and operations, all the way

down to the account level. In using the software, "everything is in one place, so you have total visibility instead of having to rely nn hundreds of spreadsheets," says Alan Michel,

manager of internal audit at the energy company Blow the software works: The software identifies the risks and assertions tied to various accounts and then maps those accounts back to the controls that support them, according to Michel. The software also instructs users on how to schedule and test

internal controls throughout the negativation If there are any issues or discrepancies with a given control, they are sent through workflow for

remediation and testing. a Customization required: None.

· Additional servers/storage required: FirstEnergy added servers and software to support its test and production environments · Favorite functionality: The software "gives you complete visibility" on what controls are in place to

support each account, and vice versa, says Michel. · Functionality desired: The ability to determine which recounts are "significant" and whether they're in scope, says Michel. Also, the ability to provide greater transparency between entity-level controls.

## business process controls and IT controls. SUNTRUST BANKS INC. Atlanta

 Charter: Commercial bank
 Hoddes used: SOX Express, from OpenPages Inc. in Waltham Moss

 Requirements: SunTrust wanted a software package that could help business managers monitor the controls that each of their departments use to sup port the bank's collective financial reporting. In addition, senior executives at the bank are able to use a software dashboard to determine whether company

managers have verified that appropriate controls are in place to support their departments' business activities.

Prior to using software from OpenPayer, Sun Trust's managers used Excel spreadsheets and Microsoft Office Visio software to monitor their internal controls. But the process was extremely manual, says Martha Keith, group vice president in financial

proporting risk management

 How the uniterare works: Users can enter their IDs and passwords to access the software on SunTrust's network or they can use tokens through the company's VPN. People can view the processes they're responsible for and the controls that support them

enen commutenensis con

through SunTrust's security provisions, says Keith If there are any control deficiencies, process owner can create an action plan have the problem remediated and then retest the control in question. At the end of each quarter, senior management reviews all of the controls to determine whether they have deficiencies that might affect the company's financial reporting. ■ Customization required: No customization was

required, just configuration of the data to match SunTrust's business processes Additional survers/storage required: SunTrust acquired an eight-way server for its production envi-

rooment and used existing servers for its testing and condity-accurance essistements · Ferreits functionality: A dashboard view of the

controls environment allows users to "drill down" to the reasons behind a control deficiency and determine where it stands in terms of remediation and testing says John Wheeler, senior vice president of financial reporting risk management at SunTrust

· Functionality desired: SOX Express 4.0, due out this spring, "will allow us to configure our own (data) fields "says Keith Wheeler would like us he able to load SunTrust's financial data into the system, a canability that he says OpenPages is currently addressing. .........

## UGS CORP., Plano, Texas Charter: Provider of product life-cycle manage-

ment software · Modules in use: BizRights, from Approva Corp. in Minney Mr.

\* Requirements: UGS began implementing Approva's BizRights system last May to identify and correct any segregation-of-duties violations with its SAP ERP system in order to comply with Sarbanes-Oxley

· How the selfoure works: BizRights provides UGS managers with a view of the segregation of duties across its SAP ERP environment. The BizRights software analyzes whether there is appropriate segregation of duties among business managers and compares that with a "rule book" that's incorporated into the software. So if a manager is responsible for cash applications, the system can determine whether he is authorized to conduct accounts-receivable adjustments, says leff Greiner, director of enterprise

applications engineering at UGS. · Customization required: Nonc.

 Additional servers/storage required: BizRights currently runs on a Dell Windows-based server "that's a little underpowered," says Greioer. UGS is upgrading tu a more powerful Windows-based server this year at a cost of \$10,000

■ Favorite functionality: Minimal administration is required. Also, BizRights has helped UGS significantly reduce its reliance on external auditors to gather segregation-of-duties information from its SAP environment, says Tom Beitel, UGS's internal studit director.

· Functionality desired: "A systems administration tool where I can see what's going on," says Greiner.



## Who was selected as best in BI?

## Siebel Business Analytics Best Business Intelligence Application Award Winner

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Business Analytics

# HILB MUCH of the work to comply with the Sarhuser-Oxley Art has been focused on adding cortrol to business processes and systems related to financial reporting, some componies are beginning to up approximation life-cycle management tools to address Sarhuner-Cyley compliance and provide the componies are beginning to cast part of the displacetion development process. These commenting areas.

to address Sehanes-Osky compliance as part of the application development process. These companies are using tools to automate development and documentation processes. That documentation can then be audited to detail who has accrised code and what changes have been made. It can

BY HEATHER
HAVENSTEIN

also be used to track what
testing and quality assurance
have been done when building applications or changing existing ones that fall
under the act's scope. Some companies are finding

that these congulance efforts are yielding additional rewards. like reducing costly reworkly suitomating the change management aspects of programmingtersel-based four Parl Parlamenculus Lindustries Lick, which generates 9% of its revenue from sales in the U.S. and Europe, has replaced its paper-based application development workflow with change management and code-change tools from MKS Inc. over the past year. In addition to helping Teva meet regulatory requirements, the tools have allowed the

company to attach electronic signatures to software change requests as required by the U.S. Food and Drug Administration. Tera has also been able to virtually eliminate its rework requests by using the tools to verify the changes are meeting business user requests, says Tom Loane, vice president and CIO of Teva North America. Tera's old paper-based process for requesting

Teva's old paper-based process for requesting development work centered around a seven-page form that had to circulate among employees in the U.S. and forael to get four required sign-offs — from the user requesting the change, the programmer, the tester and the quality assurance employee — for the LOOO software changes the company makes annually,

Texu is replacing that process with MKS Integrity Manager, which prescribes the process and manages the workflow associated with code changes. The tool creates a document trail that records all activity, from the time a request for a change is made to when the code is moved into production. A workflow engine sends e-unal mofileations to team members when work is requested, performed or completed, or when requirements have changed.

Because Two has combined Integrity Managor with MSS Source Integrity offware configuration management tool, programment can check out the source cool meeted for the change requera. All the changes are also recorded and compared against the details in the request for the changes, As a result, Fero can freezer as activity during the development process to the compared and the control of the compared and the Why to controlling the control of the control of land this rolls out a clean pattern of what the beck happened in any struction? Lone sears, "It is not hard

to prove what you did."

But automating the process had its challenges.

First Term tried to preference the process in the

First, Teva tried to replicate the paper process in the tool, which Loane says amounted to "automating a bad process and making it worse," Then the company

# Right START

Some companies are starting to use application life-cycle management tools to address Sarbanes-Oxley compliance issues within the application development process.

## Software Configuration

Application life cycle management took help with Sarbanes Oxing compliance

became they analis the following:
PROCESS ENFORCEMENT: Compliance
requires defining, implementing and autor

performed manually, those activities are time consuming and error-proce.

TRACEABILITY: Companies are able to demcontrain that systems do what they are de-

signed in do by linking requirements, coding and lost cases together – and ensuring that they correspond – while ordereing change management policies.

AUDITING: Auditing records the history of requirements, coding and testing, leckading information about who changed what when and why to allow users to show that cuches are in place for changes to applications.

took several months to devise a new process that treated all development as change, including new development and changes to existing systems, he says. In addition, the company began using the MKS tools to provide muthorization for user access that required approval from a manager. Since it roused out those problems. Teva has been through two successful audits for Sarbanes-Oxley compliance, Loune says. In addition, the tool has helped to boost the quality of overall application development because the company added a step in the process to query the requester of the change about his satisfaction with that change.

"It is a neat check to make sure we are really listening to what people are saying." Loane says. "We haven's potter any requests for rework after the fact. Everyone knows we are going to ask the user if they got what they asked for, land) it tends to improve the quality overall.

ADM investor Services Inc. last year expanded its use of Alexays Corp's team management tools. Instead of just tracking help deak problems, it's now used throughout ADM's development process as part of Sarbanes-Oxley compliance, says Sam Helmich, vice president of technology at the Chicago-based futures trading companies.

The subsidiary of Archer Daniets Midland Co. reconfigured the system so that as employees put in requests for programming projects, those requests are automatically sent to be approved by managers and reviewed by business analysts. They are then sent to the developers and testers who perform the work, he says. Before going to production, the original requester can review proposed changes to see if they must the business med. Melnish see

The system also documents installation instructions and can allow the installer to acknowledge that such instructions were followed, he adds.

## TRACKING CHANGES

The Robert Mondavi Corp. is using TeamTrack process and issue management software from Sereca Software line. to help support regulatory compliance, based on the advice of auditors who saw the tool being used to track and prioritize application change requests, says Brian Shelden, director of IT at the Oakville, Calif-based winemaker.

Mondavi has also begun using TeamTrack to track changes made to applications, from the request for a change all the way to production, Shelden says, For example, the tools are used to document when changes are made in response to calls to a help desk or to track product price variations from state to state, he adds.

production from the state of outs, he shall be requested to consign from who repeated change, what request was consign from, who repeated change, what review process that were through, who was individually supported to approximate the control of a process of the state of the st

Making changes to applications "can change or invalidate the controls that have been put in place to run the business," Hagery says. "Or, companies will make a change and forget to change the documentation when they should be making the changes to the written documentation and then making changes to the texteen" a

## IT STRUGGLES WITH Climate

## Climatologists tracking global warming need all the computing horsepower they can get. Here's why

Corporate IT manageers who never seem to have enough CPU power. disk space, bandwidth

or funding might take comfort from U.S. mate scientists. Computerworld's Gary H. Anthes recently talked with two of them and learned that even having access to the world's most powerful inmotion systems is not enough. Patrick Heimbach is a research

scientist in physical oceanography at MIT, and James Hack heads up climate modeling at the National Center for Atmospheric Research in Boulder, Colo. Both scientists use their own organizations' computer systems, as well as those at supercomputer centers around the U.S. (see box at right).

What are you working on at MIT? HEMBACH. We are trying to see if we

can simulate, if we can understand. what the ocean has been doing over the last couple of decades. Are we heading toward a warmer world? Is fwarm ing due tol internal variability of the locean's and atmospheric system, or is there something we are doing to the

system?

Do you have the co tional power to do that? MBACH: What we ultimately would like to run we can't currently fit on any computer. We would need on the order of 20,000 processors, and

probably two orders of magnitude faster processors. Each supercomputer center allocates a certain amount of computing time to a specific group. So we have to size down the

problem we are addressing for that specific machine.

So it seems you must beg, borrow and steal ces for this work. HEIMBACH: We have to find the cycles where we can find them. But even for the machines that are available, if we really wanted to go to the actual funatial] resolutions that we need, we prob-

ably would not be able to fit those problems on those machines. Give us any machine, and we can immediately fill it with an interesting problem, and we'll still have the feeling we are limited. HACK: Climate and weather applications ...

push high-performance computer technology, A decade ago, global climate applications benefited from the extraordinary memory handwidth of proprietary high-performance architectures, like the parallel vector

architectures from Croy and NEC Ar scientific computing migrated toward the commodity platforms, interconnect technology, both in terms of bandwidth and latency, became the limiting factor on application performance and continues to he a performance bottleneck.

Is the internet adequate for connecting you to the superness around the U.S.?

HEIMBACH: Transferring several terabytes of data from NASA Arnes [Research Center] to MIT is just overwhelming to do in a reasonable time As of a year ago, we were limited by the 100Mbit/sec. bandwidth of the network that connects our department to the outside world. The best sustained rates that could be achieved were on the order of 55Mbit/sec. That would bring us to a transfer time of 1.7 door Der ITB of data

We now have better connection to the high-speed Internet? Abileme network, with its IOGbit/sec, crosscountry backbone. The bottom line still is we need much higher hand. width. less network concession and smart transfer protocols, such as the large-files transfer protocol [bbFTP].

HACK: The so-called sneakernet continues to provide the best handwidth for moving large data sets between computing centers - shipping data on tapes or disk via overnight services. We are engaged in some emerging computational projects that will occur ate hundreds of terabytes per experiment. Moving that data is a significant challenge. Storage and access to that data for analysis purposes is a compa-

rably challenging technical task

How adequate is supercomputer caps in the U.S. for scientific research? HACK: One could argue that there will never he enough supercomputing capacity. In [a] sense, scientific progress is paced by the availability of highperformance computing cycles. And the problem becomes more acute as the need to address nonlinear scientific problems in other disciplines. like material science, computational chemistry and computational biology, continues

to erow

plobal warming. Could better climate m ols and/or better or

remake that? HACK: For many scientists, it's not a question of whether the planet will warm, but more a question of how much the planet will warm and what form the regional distribution of that warming will take. Answering ... these questions will require additional levels of sophistication in global climate models, such as improved resolution and extending existing modeling frameworks to include fully interactive chemical and hiogeochemical processes. These kinds of extensions are ... extremely expensive in computational terms. We will require a minimum of a twenty-five-fold improvement in computational technology to enable the next-generation model [in] three to five years.

HEMBACH: You need to run coupled

## that minimize CPU load.

ocean-atmosphere simulations over 10 to 100 years. We think that these models, and the underlying model errors, are still such that we need to do more basic research to understand the errors better. That's what we are trying to address.

## Should the federal government be doing more to fund supercomputer research and

HACK: The federal government should treat supercomputer technology in the same way that it treats other strategically important areas, like those related to national defense and national security. It's too important to the nation's scientific and economic competitiveness to he left to chance.

## BIG IRON, BIG PIPES



# **TAUGH**

Machine-learning techniques have been used to create self-improving software for decades. but recent advances are bringing these tools into the mainstream, BY GARY H. ANTHES

TTEMPTS TO create selfimproving software date to the 1960s. But "machine learning," as it's often called. has remained mostly the province of academic researchers, with only a few niche applications in the commercial world, such as speech recognition and credit card fraud detection. Now

researchers say, better algorithms, more powerful computers and a few clever tricks will move it further into the mainstream And as the technology

grows, to does the need for it. "In the past, someone would look at a problem. write some code, test it, improve it by hand, test it again and so on," says Sebastian Thrun, a computer science perofessor at Stanford I Injurgity and the director of the Stanford Artificial Intelligence Laboratory. "The problem is, software is becoming larger and

larger and less and less manageable. So there's a trend to make software that can adapt itself. This is a really bie

item for the future. Thrun used several new machinelearning techniques in software that literally drawe an autonomous car

132 miles across the desert to win a \$2 million prize for Stanford in a recent contest put on by the Defense Advanced Research Projects Agency. The car learned road-surface characteristics as it went. And ma-

chine-learning techniques save his team a productivity hoost as well, Thrun says. "I could develop code in a day that would have taken me half a month to develop by hand," he says. Computer scientist Tom Mitchell director of the Center for Automated Learning and Discovery at Carnegie Mellon University, says machine learning is useful for the kinds of tasks that

humans do easily - speech and image recognition, for example - but that they have trouble explaining explicitly in software rules. In machine-learning applications software is "trained" on test cases devised and labeled by humans, scored so it knows what it not right and wrong, and then sent out to solve real-world cases.

Mitchell is testing the concept of having two classes of learning algorithms in essence train each other, so that together they can do better than either would alone. For example, one search algorithm classifies a Web page by considering the words on it. A sec ond one looks at the words on the hyperlinks that point to the page. The two share clues about a page and express their confidence in their assessments. Mitchell's experiments have shown that such "co-training" can reduce errors by more than a factor of two. The breakthrough, he says, is software that learns from training cases labeled not

hy humans, but by other software. Stuart Russell, a computer science professor at the University of California, Berkeley, is experimenting with languages in which programmers write code for the functions they understand well but leave sans for murky areas. Into the gaps go machine-learning tools. such as artificial neural networks Russell has implemented his "partial programming" concepts in a language called Alisp, an extension of Lisp. "For example, I want to tell you how to get

to the airport, but I don't have a map," he says. "So I say, 'Drive along surface streets, stopping at stop siens, until you get to a freeway on-ramp. Drive on the freeway till you get to an airport exit sign. Come off the exit and drive along surface streets till you get to the airport.' There are lots of gaps left in that

orram, but it's still extremely useful." Researchers specify the learning algorithms at each gap, but techniques might be developed that let the system choose the hest method. Possell ever The computationally intensive nature of machine learning has prompted Yann LeCun, a professor at New York University's Courant Institute of Mathematical Sciences, to invent "convolutional networks," a type of artificial neural network that he says uses fewer resources and works better than traditional neural nets for applications like image recognition. With most neveal nets, the software must be trained on a huge number of cases for it to learn the many variations — size and position of an object, angle of view, background and so on - it's likely to encounter LeCun's technique, which is used to day in bank check readers and airport

surveillance systems, divides each image of interest into small regions - a nose, say - and then combines them to produce higher-level features. The result is a more flexible system that requires less training, he says.

## Intelligent Design - Not

Meanwhile, research is pushing forward in a branch of machine learning called genetic programming (GP), in which software evolves in a Darwinian fishion. Multiple versions of a program - often thousands of them generated

at random — set to work on a problem Most of them do poorly, but evolutionary processes pick two of the best and combine them to produce a better generation of programs. The process continues for hundreds of ornerations with no human intervention, and the results improve each time

GP pioneer John Koza a consulting professor in electrical engineering at Stanford, has used the method to design circuits, controllers, optical systems and antennas that perform as well as or better than those with natented designs. He recently was awarded a patent for a controller design created

entirely by GP

It is, like biological evolution, a slow process. Until recently, computer power was too expensive for GP to be practical for complex problems. Koza can do simple problems on laptop PCs in a few hours, but the controller design took a month on a 1,000-node cluster of Pentium processors

"We started GP in the late 1980s, and now we have I million times more computer power," Koza says, "We think sometime (within) 10 years we ought to be able to play in the domain of real engineers." 9

## Implementing Change Is Never Plug-and-Play

A digital rights management project illustrates to our security manager how complications can multiply. By Mathias Thurman

MIE PATCH management process I talked about instituting two weeks ago [\*WMF Vulnerability Sparks Patch Program," Jan. 23] got off to a good start, though things have slowed down.

Immediately after we pushed the patch for the Windows Metalife vulnerability to all dekthops, our Systems Management Server reported 60% completion. But a workstation isn't considered patched until it's rebooted, and a lot of users are slow to do that. We've forced rehoust.

in the past, but when users lost unsaved source code or other critical work, we got complaints that IT was affecting revenue generation. Now, after two weeks, we're still at only 80% compliance: up and 1,97%. It creams an

one or two percentage points per day now, which is pitiful. I've decided that we'll e-mail users who haven't rebooted their deskrops and follow up with e-mails to their managers. At some point. I will order a forced reboot and take the heat for any repercussions. There's no responsable a user-

## can't save his work and reboot.

Besides getting patch management off the ground, I'm still frustrated by the digital rights management project. DRM involves encrypting a docusaent and wrapping it to technology that controls access per an established policy.

Access to a particular docunent can be limited to a certain group of users, and what various users can do with the document can also be restricted so that some, for example, can only read it, not edit it.

I wanted to apply DRM protection to both Microsoft Office documents and Adobe PDFs, but it turns out that our technology choices are limited or a somewhat complicated

reason, so we will be starting a pilot of Adobe LiveCycle Policy Server. Our first DRM goal is to

first DRM goal is to
protect our technical service manuals.
A large portion of
our revenue comes
from servicing the
equipment we sell
to chip manufactur-

ers, and revenue has taken a hit when other parties have managed to acquire our service manuals and then offered our customers discounted servicing of our equipment. How do other parties gain access to our service manu-

als? Well, the equipment that we build and service typically resides within chip fabrication plants, and it's not unusual for our service-manual PDFs to be sitting open on a workstation in a fab. These workstations are accessible to many people, sometimes including employsometimes including employ-

ces of our competitors.
To make matters worse,
the management of some fabs
won't let our employees bring
in their company-issued laptops, so they have to load the
PDF manuals on the fab work-

stations via a USB device or a CD-ROM. That's not a clean operation, because there is almost of the control of the control of the document may reade in a temporary directory on the fab workstation. Worse, our technicians could forgefally leave the CD-ROM behind or lone it, and in some cases, they might be tempted to sell it. So, what's the problem? Well, every DRM wendor requires that an "agent" be

requires that an "agent" be installed on the desktop, Fab managers are reluctant to install most third-parry DRM agents. But they're comfortable with Adobe Reader, which seems to be almost as common as Microsoft Office. And Adobe's agent just happens to be Adobe Reader. The different is the Adobe.

Policy Server is a DRM tool that works only for PDFs. If we deploy it to address our foremost problem — unauthorized access to service manual PDFs — we can't provide DRM to other departments that may need to protect other types of documents. For example, our finance department will surely want to protect financial startements, and legal may want to aports a DRM policy to patent

documents.

Once other departments get wind of this DRM deployment, they'll want to apply it to their important documents. All we'll be able to do it to tell them to convert documents to PDFs, which will then allow them to apply DRM policies. Of course, converting a document to PDF requires additional software, which isn't theap. Mean-which isn't cheap. Mean-

while. Adobe has acquired the FileLine DRM division of Navisware, which it says will allow it to extend protection to Microsoft Office and CAD formass. The company says these capabilities will be available in the fall, and I hope it comes through on that promise.

I anticipate another problem, this one involving the EMC Documentum Content Server, which is the main repository for our service manuals. When a technical series creates a service manual, ir's checked into Documentum and automatically converted to a PDF. The DRM policy would be applied to the document when it was checked into Documentum, Problem is lots of check-in/check-out operations take place, and many reviewers make changes to a document during its life cycle. Documents may go through many iterations before they're considered "gold," the status when we would want the DRM policy seeding

Adobe doesn't have any hooks built into Documentum to easily apply the policy at the proper point in the document's life cycle. Adobe says that while a client and server software development lik is available for Policy Server to Integrate with custom su-theritication and packaging services, the product does not include out-of-the-box support include out-of-the-box support

for Documentum. In addition, once a document is protected, it's encrypted and there is no way to effect ed and there is no way to effect tively tearch for text within it. In just because we apply a Disk policy to a document doesn't mean we want to hide its creistence. We just want to keep unauthorized users from a ccessing it. The ability to index a document to enable search.

ing is essential.

As I have researched DRM.

I have realized that this technology is in its infancy as it applies to businenses. But I must press forward. Deploying DRM is one of my company's strategic objectives, and its success is crucial to my yearly bonus. §

WHAT DO YOU THINK?
The week's journal is written by a reel
southy manager. Whitein Therma:
whose fraint and emisphory have been
disposed to exhow a resource. Consect here

whose name and employer have been disqueed for obvious reasons. Consuct him of markets, theremethylatious cours or part the discussions in our security billings: computative with completing wherearity.

To find a complete surface of our Security Messager's lawstate, on confessions.

## CURITY LOG

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# Tips for Outsourcing Your Assessment Needs

HEN it comes to your networks. there's no such thing as being too safe. Organizations with even a limited Internet presence can be targeted by hackers or hit with viruses. Trojan horses and other malware. Threats don't all origi-

nate from the outside, however. Companies of all sizes have seen network damage caused by either careless or outright vengeful employees. Whether the result of intended attacks or innocent activity such as unwittingly

downloading ao infected application, such damage to an organization can be tionificant and nasty. With the number of software vulnerabilities increasing dramatically, legislatures are trying to keep pace by enacting laws to maintain or bolster security. Some organizations are finding it a challenge to remain abreast of new laws and ahead of new malware. Foter vulgerability as-

sessmeots. VAs allow organizations to pinpoiot more accurately where their networks are likely to be weakest. They twoically look for vulnerabilities in your organization's IT environment and ioclude several tests on your computers (desktops as well as laptops), your network and your Web applications. Test results will allow your IT staff to correct any weaknesses through reconfiguration or

natching as needed Each organization must determine whether to have the VA performed by internal staffers or to outsource that service. Haviog an outside firm perform the VA may be more costly, but it can provide results more quickly and often with more accuracy.

As so alternative, some businesses opt for a middle ground where some

portion of the assessments are performed inhouse with the rest left to an outside provider. For example, a professional could design the right protocol for your organization's oceds and then train your company's own IT staff to take over those duties in the future A combination approach can set specific projects in

> up and ensuing projects to your in-house team. VA as an in-house project will come at a price. The time spent training your staffers to learn the needed skills (which may be totally unfamiliar to

motion quickly (with out-

sourcing), leaving follow-

them) will take them away from other tasks. If the company budget will allow that downtime, then training may be a good option. Access to the IT professionals doing the training will be short-lived, how-

ever, and as the security environment evolves, your employees will need to he retrained in order to keep up. Using outsourced professionals can relieve your employees from those added duties, allowing you to be more selective about the VA team members and how long you keep them on, and helping you stay within hadget.

Once you've decided to outsource,

your organization will have to hire the right company to do the job. Not only must the outsourcer understand your company's specific needs, but it should also be able to meet those needs at a price that's within your budget. Your company and your employees must be ready to share all relevant information with the outsourcing team so it can carry out its function. Reluctance to provide certain information is natural, since doing so usually tends to reduce security and staffers have been trained to ensure that client and company information remain confidential.

When the company you've entrusted with your needs further outsources parts of the project - io other words, subcontracts - information is exposed even further. Remember that subcontracted work could be inferior to that of your primary cootractor, and your organization should determine at the outset whether a vendor will be subcontracting. If it is, you may want to include in your contract with the outsourcing company a provisioo enabling you to reject or accept certain subcontracted vendors. Or you may want to refrain from outsourcing with that firm altopether

Outsourcing VA offers many advantages. Both established firms and newer companies that have untested employees or are simply understaffed are attracted by the expertise afforded hy a professional vendor

Such vendors offer their clients the benefit of their experience, whether it's from having had a good oumber of prior customers or just years of know-how galoed from servicing a wide range of companies. Their client focused approach will provide your organization with an assessment tailored to your company's needs and present it in a clear, concise format.

For more columns and links to our archives go to

Savvion Launches **BPM Tool Undate** a Santon Inc. in Santa Clara

n View, Calif., has unv -2000 HotSensory Pre

A Software Suite

Web services, Prici Stizzard, ranges from \$80,000 to \$100,000 for an entry-level or

pilot license, to \$1 million and us DataMirror Releases PointBase 5.4

DataMirror Corp. in Mar ion of its Java relations

ices removes earlier li ber of records that co s \$500 for uni

## MANAGEMENT

## IT MENTER Surviving Process Without Going Berserk

A formal process can be seen as confining or liberating. IT Mentor Thomas Cutting offers tips for finding the right balance without driving yourself or your husiness customers crazy PAGE 34

## Q&A Evolve or Fail

Decision-making styles that work for IT managers don't work for CIOs, say Kenneth R. Brousseau and Gary Hourihan, So whatever style got you that promotion, chances are you're going to have to change it. PAGE 36

Detecting Disaster Projects The best way to avoid a prosect disaster is to recognize one in the making, says Paul Glen, Here are some signs that your project is spring off the rolls PARE 30



# Alignment

Follow these five principles, and the IT-business divide will cease to exist.

years, there has been a growing interest in foreign greater alienment between IT departments and the larger corporations in which IT exists. Some authors have attributed this to the collapse of the dot-com bubble, which caused disillusionment and confusion regarding the promise of technology, and the re-evaluation of technologyintensive efforts. Some have noted that, in an environment where the question "Does IT matter?" generates so much debate, tying

IT closely to the

rest of the busin

ness is a mat

ter of survival.

my perspective, the answer is more fundamental. The so-called

divide between IT and the business is a misnomer. At the best companies. IT has never been separated from the business. and these companies naturally know how and where to use technology. At these companies technologists understand what the business needs, and business leaders understand the benefits of technology. And rather than installing the latest gadeet just

Others suggest that technology

provides companies with signifi

cant competitive advantage and therefore needs to be close to the

While I agree with each of

these points to a degree, from

TA CASSESE says there's no divide between IT and bunitous at the best corr

because it sounds cool. IT departments focus or enabling business processes. and creating value - both at the top line through a facus on innovation and at the bottom line, through a focus on officerous

This theme — enabling the business to achieve value through innovation and sayings through etherences — is one that I have now succeed at Priver It rests on a few key principles

1. ALIGN WITH THE BUSINESS. While I'lbusiness alignment may be the natural state in which I have come to anorate it doesn't mean that it's easy to achieve Being close to the business means being close to your customer, and this is critically important to being able to deliver what the company needs. This happens in big ways, like having yearly IT stratevic plans approved by a board of business leaders; and it happens in small ways, like having each IT person sit close to the business teams be works with on a day-to-day basis. This enables IT colleagues at every level to be conversant in the explicitly stated needs of the business and to have insuches into larger or unstated needs as well. In fact, it's a recognized and valused skill at Prizer to be able to identify and act on latent needs in anticipation of the business side's formulation of any kind of requirements definitions. When business poorde come to senior IT leaders to ask about business ansiehrs and ideas eather than about been successful in altenment

2. FOCUS ON THE BUSINESS PROCESS. Processes are core to how a business

The applications we use to automate. streamline or standardize the business process may change, but focusing on the 'what' of the process rather than the 'how' of the IT solution. is an excellent way to ensure lasting value.

VITA CASSESE

TRYING TO TELL SOF how to "operate with excel lence" is like trying to explain what makes the lates movie star cool - it's hard to describe, but we all know

it when we see it. For IT professionals, how ever. I believe that perform expectations and mainta ing your own high sta are the steps that provide the most important found tion for operating in a way that earns confidence and is rest of the busi Although each situe is unique, there are som broad technical guide leaders should keep in mine Stay current with new and evolving trends. Wh ining experience with

each new release of even ication on the marke could be its own full-time ich all IT confe rould be familiar with nces taking place in oth the technical and bu more sense in which there understand and relate their

ents and to identify nities before they Use current tool and make sure you have a ed architectural for tion. A good system is one well as it works today and

can adapt and scale to mee him needs Using a mix of current socrepriately and bosi ament on the une of solid perhitocheral prin men that our

is the foundation of a qual Be responsive to customer needs at all point

Excellence

don the roper role of proto no rolling out, scal ssing out and e ies shows that you un stand the customer's ne by operating in a way that

WITE CARRESS

operates. The applications we use to automate streamline or standardize the horizons process may change but focusing on the "what" of the process rather than the "how" of the IT solution is an excellent way to ensure lastine value.

In a propent article Michael Hammer told of how Albert Einstein once asked his secretary to distribute an exam to his students. Upon looking at the paper, the secretary objected and said. "But Professor Finstein these we the same questions you used last year. Won't the students already know the answers? "It's all right, you see," Einstein re-

elied. "The questions are the same, but the answers are different." dents is true for FT. How we answer the questions may change as we propress from elient/server to Web-based to open-source technologies, but what we need to address - those business processes that are at the core of how a

company operates - are problems that don't change too much over time. 3. TELL GOOD STORIES (AND HAVE GOOD METRICS). Being able to explain how and where IT is adding value is a critical but frequently underappreciated skill. It's not self-serving to broadly and appropriately disseminate stories about how IT is adding value, it's a matter of

survival. How will the vice president of marketing and the CEO understand the effect of IT if someone doesn't draw the connections for them? Most business leaders don't look at

positive sales-growth figures and automatically think, "Good job, IT department?' However, if that sales prowth has come from online channels and EF has been a portner in creating an effective and efficient Web presence, then same credit is due but he cure to tell the story in terms that business leaders can understand: Minutes of untime

Here are some recent and Jorthcom Beyond Control: Managing Strategic Alignment Through Corporate Dialogue

Practical Strategy: Aligning Busi-

ness and Information Technology Manage IT as a Business:

How to Achieve Alignment and Add Value to the Company The Alignment Effect: How to Get Real Business Value Out of

echnology

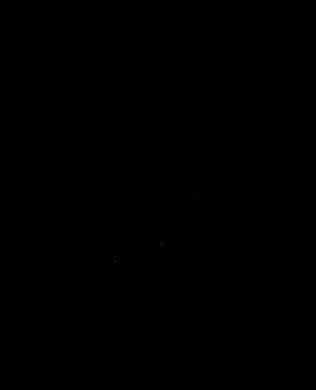
since last reboot, for instance, may not he as compelling a metric to executions as the number of customers finding product information online

4. HIRE 0000 PEOPLE. It has been Pfizer's mantra for years that if you hire smart people, give them the tools to do their job, and measure and reward them on what is appropriate then would number will mose than likely source People can be taught IT skills and can learn the ins and outs of a particular industry, but it's very difficult to teach common sense and the ability to learn new things. By the time most people

reach the workforce, they either have these or they don't. 5. OPERATE WITH EXCELLENCE. The

best-laid plans, a perfect alignment with the business and the best intentions can all be undone through sloppy execution. It should go without saying that the best way to engender confidence and convince people that they can rely on IT is to consistently perform and overdeliver on expectations While not exactly a checklist, these five points are what I continually use to check myself and ensure that I'm doing what is in the best interests of my company. They have been suideposts for how the IT department has developed at Pfizer over the past 25 years. and I hope they can be useful to you as

well. Cassese is vice president of global business technology at Pfizer Global Pharmaconticals Contact her at vita.cussesea pfiper.cum.



This theme — enabling the business to achieve value through innovation and savings through efficiencies - is one that I have seen succeed at Pfizer. It rests on a few key principles:

1. ALION WITH THE BUSINESS, While ITbusiness alienment may be the natural state in which I have come to operate. it doesn't mean that it's easy to achieve Being close to the business means being close to your customer, and this is critically important to being able to deliver what the company needs. This happens in big ways, like having yearly IT strategic plans approved by a board of husiness leaders; and it hannens in small ways, like having each IT person sit close to the business teams he works with on a day to day basis. This enables IT colleagues at every level to he conversant in the explicitly stated needs of the business and to have insights into latent or unstated needs as well. In fact, it's a recognized and valand skill at Disserts he ship to identify and act on latent needs in anticipation of the business side's formulation of any kind of requirements definitions When business people come to seoior IT leaders to ask about business insights and ideas rather than about strictly IT issues, you know you've

been successful in alignment. 2. FOCUS ON THE BUSINESS PROCESS. Processes are core to how a business

The applications we use to automate. streamline or standardize the business process may change, but focusing on the what of the process rather than the 'how' of the IT solution. is an excellent way to ensure lasting value.

WITA CASSESE

## perating With Excellence

to "operate with eace a" in like trying to exin what makes the late star cool - It's here earthe, but we all h 00 WE DON IL

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since last reheat for instance may not

operates. The applications we use to automate, streamline or standardize the business process may change, but formains on the "what" of the process rather than the "bow" of the IT solution is an excellent way to ensure last. low walne.

In a recent article, Michael Hammer told of how Albert Einstein once asked his secretary to distribute ao exam to his students. Upon looking at the paper, the secretary objected and said. "But Professor Finstein, these are the same questions you used last year. Won't the students already know the answers? "It's all right, you see," Einstein replied "The questions are the same but

the answers are different." What was true for Einstein's students is true for IT. How we answer the questions may change as we progress from client/server to Web-based to open-source technologies, but what we need to address - those business processes that are at the core of how a company operates - are problems that don't change too much over time.

3. TELL GOOD STORIES (AND HAVE GOOD METRICS). Being able to explain how and where IT is adding value is a critical but frequently underaporeciated skill. It's not self-serving to broadly and printely disseminate stories about how IT is adding value: it's a matter of survival. How will the vice president of marketing and the CEO understand the effect of IT if someone doesn't draw the connections for them?

Most business leaders don't look at positive sales-growth figures and automatically think, "Good job, IT department?" However if that sales excepts has come from online channels and IT has been a partner in creating an effective and efficient Web presence, then some credit is due. Just be sure to tell the story in terms that business leaders can understand: Minutes of uptime

be as compelling a metric to executives as the number of customers finding product information online. 4. HIRE 6000 PEOPLE. It has been Pfizer's mantra for years that if you hire

smart people, give them the tools to do their job, and measure and reward them on what is appropriate, then good results will more than likely ensue. People cao be taught IT skills and cao learn the ins and outs of a particular industry, but it's very difficult to teach common sense and the ability to learn new things. By the time most people reach the workforce, they either have

S. OPERATE WITH EXCELLENCE. The best-laid plans, a perfect alignment with the business and the best intentions cao ali he ondone through sloppy execution. It should go without saving that the best way to engender confidence and convince people that they can rely on IT is to consistently perform and overdeliver on expectations. While not exactly a checklist, these

to check myself and ensure that I'm doine what is in the best interests of my company. They have been guideposts for how the IT department has developed at Pfizer over the past 25 years, and I hope they can be useful to you as well.

Cassese is vice president of global business technology at Pfizer Global Pharmaceuticals. Contact her at vita.casseses@afizer.com.

these or they don't. five points are what I continually use





# SURVIVING PROCESS

Howeld find the balance between domination and anarchy BY THOMAS CUTTING

APRIAN'S WALL stands as a monument to the battle between process and freedom Built by the Romans in porthers British between 122 and 130.

A.D., the 24-mile barrier marked the final frontier of the vast and powerful Roman Empire. On one side stood law and order, On the other, men painted themselves blue, screamed like basehovs and wont all but beyork in

their fight to remain free.

I thereby, process and quality-forces of methods like the Capability Maturity Model and INO 1000 1000 mountained. What is a substantial of the consistent with a new population of the consistent which is the consistent of the consistent increases repeated ability, productivity and quality while decreasing profess delivery time. But these same processes can appear as a wall in the basiness report who are

pressured to get their ideas to market. The project team ends up on the battle line between the program management office (PMO) enforcing the procedures and the business people seeking to retain their freedom.

Three seen project managers burn out striving to phase both groups. Here are some practical ideas to keep process from driving everyone

question processes. Processes are not always as helpful as intended, but a successful process matures over time through the addition, adjustment and

removal of paces.

In my own experience, a form used to track project defects was one of those processes that offered limited payback, its intent was to record the point during application development where defects were introduced so that

we could determine bow to improve. The time it took to record and analyze the information was disproportionate to the results, bowever. We questioned the process, found it unnecessary and

EDUCATE EVERTORE. Once a process is understood, it is important to communicate it to the project team and other stakeholders affected by it, including the business stakeholders. Warning: People frequently resist a new procedure. The temperation for project managers is to shirk responsibility by saying. The process group billity by saying. The process group

makes us do it."

While initially this may get you sympathy, ultimately it will cause frustration and animosity toward the

processes and the project.

REMOTE REDUNDACY, Having maltiple meetings or reports with the same
purpose is just as instances it sounds,
one strategy to ovaid this is no combine
the team and business status meetings. Another is to combine multiple
projects for the same business unit into

one status mecting. If multiple groups need to receive status reports, agree on a common format to avoid duplicate efforts. Be aware, however, that if the original reports serve completely different purposes, combining them may motife any benefit.

MANGE MECTINOS. As meetings are ombined and more people and projects are involved, it becomes in-

are combined and more people and projects are involved, it becumes increasingly important to manage merings well. Share the meeting's purpose ahead of time, along with material to be recieved, if an append is six tent prior to the meeting, at least list the main discussion topics on the invitation. If status meetings tend to immedi-

arely turn into working sessions, besure to spend the first five minutes reviewing the status of the project. Make sure that risks and issues are openly communicated and discussed. These tend to get overlooked in order to get to the more "important stuff." Move them to the front of the nevendar

It's vital to keep minutes of each meeting. If something isn't written down, it's as if h was never mentioned,

KNOW YOUR LIMITS. Many project managers today are running more than one project at a time. It's important to know how much is too much and to be able to say "no thank you" when offered additional projects. Conservatively, even small projects.

will take an average of six hours of project management time per week to handle basic tasks such as status reporting, status meetings, maintaining the schedule, and handling risks and issues. This doesn't include design or technical discussions. When managers become overcommitted, productivity and quality quickly fall. If you try to focus on everything, you'll accomplish

nothing: ERLIST YOUR RESOURCES. It's not necessary for the project manager to do everything. Find items that can be selfloaded to rearm members. If a rearm member is looking to move into a management role, introduce him to some of the activities and become a mentur.

CALL ON YOUR MANAGEMENT. You are not allone. When there is trouble with resource availability or productivity, or if you need help escalating issues or obtaining approvals, involve your management. This allows you to remain focused on the project without steemen.

on any political trues.

ANNOUNCE ACHIEVEMENTS. Become the mini marketing department for the team and project. Recognizing the accomplishments of team members in from of the business stakeholders will encuarage them to continue striving for success and will highlight the value.

for success and will highlight the value of the team for everyone. These practical steps will keep you from poing berserk and running servaming from your cube. It may even persuade the business people to leave the blue point and bappipes at home. I

Cutting is a certified project management professional at Keone Inc. Contact lum at Thomas E. Cutting a Keone.

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For the rebel in all of us, process ledfiles a wall histograp our freedom by if you want to really feel trapped fellow thase surrole steps (prove the process and hope it posaway Even Remo dubn't last forever. Tell everyone that the PMO forces yet to follow process.

Skp meeting agendas and minutes int lake time away from getting real ork done. Never say no to your management matter how overloaded you are Do averything yourself. After all meets in the persons of the of the crease in the crease of the of the crease in the crease of the of the crease in the crease of the crease

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# WITHOUT GOING BERSERK

How to find the balance between domination and anarchy, BY THOMAS CUTTING

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final frontier of the vast and powerful Roman Empire On one side stood low and order. On the other, men painted themselves blue, screamed like banchess and west all but becord in their fieht to remain free

Likewise process, and quality, focused methods like the Canability Maturity Model and ISO 9000 impose law and order within an organization. Studies have shown that the consistent use of processes increases repeatability, productivity and quality while decreasing project delivery time. But these same processes can appear as a wall to the business people who are

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Have you developed a decisionmaking style that works for you?

## Great! Get ready to change it.

why that firecracker IT supervisor who got promoted to manager crashed and burned? In this month's

Harvard Business Review Kenneth R. ou, Gary Houritan, Rikard Larsson and the late Michael I. Driver explain how successful decision, makers change their styles as they move up the career ladder. Brousseau, CEO of Decision Dynamics, which develops behavioral assessment technology, and Hourihan. global president of Korn/Ferry International's leadership consulting business, talked with Kothleen Melvawka about the need to evolve your decision-making style to fit your situation.

ting matrix is made up of ons of two fundamental styles. Tell me about the first; how people use informatumate Some people grab the most pertinent facts

and make their decision.

They know there may be more information, but they feel that the information at hand is sufficient. Other people want to be sure they haven't missed important details that may change their understanding. So they hold out [until] their

efforts to uncover new information aren't turning up anything very new. The other fundamental style involves how

people zero in on one option they see as the best for the situation. Once they do this they stick with that course of action. Others come up with numerous ontions. No one course of action seems adequate, so they put several into effect, and they may modify their course along the way as things change.

When and how do managers' decision-making styles begin to change as their camera progress? Senument: The first major transition point occurs when you have other managers as direct reports. Your responsibility has broadened, and the time horizon you're working with has increased. As managers out farther removed from the day-to-day action.

they have to rely more on other people for the information they need to make good decisions and be willing to wait and think before jumping to a conclusion. The styles that encourage others to come forward with information are quite different from those that are

needed on the front line. The key thing is you start listening more. You also do everything you can to make yourself approachable. You solicit ideas and viewpoints. You show your appreciation to others. It's absolutely essential. or things will happen that you don't know about and you'll make decisions

based on the wrong information. Heurihan: You also need to handle more complex information, because

you don't have to wrap everything

un by the end of the day. You need an increased shifty to tolerate ambieus ity and uncertainty and absorb a lot of information and see things -- both the

forest and the trees. But one attribute that doesn't change is the ability to pull the triever. We assess a lot of people who have complex, creative thinking but can't make a decision. They

## ngers go through this same

evolution? Bessessaur When you're promoted, there's a tendency to keep on doing what made you successful. But it doesn't work so well. You crosh into walls and become puzzled until the light coes on. Some realize this gradu ally or get coaching. Some crash and burn. Some move through the manage ment levels without changing But this takes a toll, and their careers tend to founder at some point.

Houritare Either you change or you fail. That's the message here. Coaching or leadership development training at that level is critical

Tell me about the secondary transition poi where styles change again, Brousseas: This starts at the director or vice president level, where you need to be very creative to generate a lot of ideas. But as you continue to move up, you need to start thinking more critically and be more focused and put more emphasis on sorting through options and making the right choices, not generating

Housings You don't want the CEO saving to the board. "There are several ways we can do this." You want him to says we can do this. Too want bear to and this is the way we want to go."

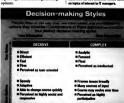
What are the implications of your findings for IT managers? Breamage: Often, the CIO is more in the creative "let's look at a lot of options" realm and not as heavy on the action as other senior execs. The CIO needs to realize that the chief executive wants to know what we will do about XVZ and he needs to articulate that Otherwise the CEO thinks the

CIO doesn't know what to do Marthur A lot of CIOs with issues have an inability to see broadly across the spectrum - to see the business solution side of it. They need to get their thought process out of the vertical silo.

What about the implications of year work for these who develop managers? Servers They need to help people develop a road map in their organization and

note where the nature of the work shifts as people move along in their careers. You need to put the emphasis where it belongs at each stage and realize that things change. The key skill set for up-and-coming managers is to read what situations require of them - to see when they need to be decision- and action-focused, and when to stop and play with ideas. The key to success is to manage your own style depending

on what the situation requires. This is the latest in a series of monthly discus sions with Harvard Business Review author on topics of interest to (T managers,





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## CIOs Are Sticking Around

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One of the large ples of "farmshoring" to date is petting under way Virginia Rut that heren coal country, maybe this is actually a case of "remestioning"

Farmhoring, the practice of sending software-related jobs to rural areas. of the U.S., has been heralded as an antidote. to ofishoring, in which those same jobs are sent to far away, low-wage places like India and China. Workers in Wichita make more than those in Bangatore, but there are fewer hurdles to overcome in the way of culture.

language and time zones. According to a story by Ellen McCarthy in The Washington Post early last month, the masons for sending coding work to rural Virginia are many. Chief among them may be the fact that government contractors are often con-

strained from giving jobs to overseas workers But a couple of those contractors, CSI-AMS Inc. and Northrop Grumman Corp., complain

that the job market in porthern Virginia is sust too tight. So both companies in the next few months will bean building multimilion: dollar technology conters. in Lebanon, Va., and will recruit hundreds of softwere

Why Leberron? McCarthy explains. "Local officials drafted a study to show that 4 566 computer science degrees were awarded in the past five years by colleges within 100 miles of Lebanon, including Virginia Tech. Radford University and James Madison University. Area community colleges promised to taior their courses to fit CSI-AMS's needs and the county said it would hald a new \$5 milion, 53,000 square-foot facility where the company could do relatively basic software development and troubleshooting.

enumeers at salones well above the moon's

average, according to the Post's story

PAGE COMPILEO BY JAMIE ECKLE

## ASK A PREMIER 100 IT LEADER

Lill E. Vice preswheel and CIO Sierreas Medical Makes De

Rice is this month's guest Premier 100 IT Leader.

saders' questions about management vs. leadership and software development skills. If have a question you'd like to pose to one of our Premier 100 IT ders, send if to as id one and watch for column each month

## A leader is usually a good man Are good managers necessarily good

leaders? Good managers need leadership whitnes, and good leaders need management abilities. Oftentimes, leadership and management skills are discussed as though they are mutually exclusive Instead, they are complementary. Circumstances often dictate which skell is most needed at any given point in time Libelieve that both leadership and menagement skills can be learned and developed and that both are necessary in order to be neutrial

With software development migrating overseas, do you think a developer with 20-plus years of experience would be wise to retrain in network support and administration? Although your feetily vostrell as an expendenced hand als end

clear what type of software you've developed duning your career, and this is an important consideration for example endurer application development will had the cost of transfer you're described more difficult to make then those who are expenses of with metern level software development. In proposit the deeper in the ISO stack was are in terms of collapse. development experience, the easier you will find making the transition you describe

You much! want to consider further rises! comp "surround skills" to complement your software development expertise - for examcle sherothering your project management skills and coverences by completion a PMP certification through the Project Management Institute. Or you might want to consider further horning your analysis skills and applying from in negligible to effective requirements definition and requirements management skills. Strong project management and/or

analysis skills geared toward requirements definition are worth their weight in gold - in spile of the current trend toward offshorms Technology trends come and go, but there will always be a need for highly skilled soft ware professionals. Bo what you enpy doing

the most, and do it to the very best of your ability. When all is said and done, that's what will give you the most personal and professional satisfaction - and, more often than not, will ly successful - especially over the long term. result in your remarking productively engaged



Percentage of U.S. based III workers who say they usually first hear about important business

## Is Your Training on Track?

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# CIOs Are Sticking Around

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Percentage of U.S.-based IT workers who say they usually first hear about important business matters through rumor.

## Is Your Training on Track?

# Detecting Disaster Projects

F YOU'VE BEEN in this industry for any length , of time, you've probably been caught up in some sort of project disaster. They happen to the best of us, and they cause financial suffering for our companies and personal pain for all involved. Careers are trashed and personal lives disrupted.

Even by optimistic estimates, about 75% of projects are late, over budget, missing major functionality or

canceled outright. So depending on your definition. most of our projects end up somewhere between failure and disaster.

There are several important things to do once you realize that you're facing a disaster in the making, but you shouldn't do any of them until you are really sure that it's on impending disaster you're up against. So the first key to disaster recovery is disaster detection Given that so many proj-

ects go astray, you'd think that we'd be better at detecting these sorts of problems. Heck, our default assumption about projects should be that they're in trouble. But that's just not the way

we're built Why is it so hard to know? Well. I've got a few theories. No real plan. If there's no baseline to

work from, no one really knows that a project is late. Many projects never get to the stage of firming up a detailed

sive optimism. In many teams, there's a perpetual optimism that just because the project is behind at the current time doesn't mean that they won't sooo catch up.

Fear of admission. When a project team is in trouble, no one wants to go to senior management and admit it.

That might bring uncom fortable scrutiny, blame and retaliation. It's easy for team members to delude themselves into thinking. "Maybe no one will notice. Maybe things will get better. Maybe I'll find a new job before someone

So how do you figure out that you're getting into trouble? How can you monitor projects for those early warning signs that things are going off the rails? Here are a few things to look for

Poor team morain. This is probably the biggest thing to look for, not because it's the leading cause of project failure. but because it's a great indicator that something else is wrong. Many of the other things listed below may first be visible in the team's morale, since team members will probably be aware of

finds out."

project problems before you are. Poorly understood team roles. If the people on the team doo't seem clear about what their individual roles should be and how they should be interacting.

chances are there's a problem brewing. Absent sponsors. If the sponsoring managers can't be bothered investing appropriate time in a project upfront.

chances are they're not going to like what they get at the end.

Not enough methodology. If the team doesn't have a commonly understood approach to completing the work, it is

likely to have trouble doing so. Too much methodology, Methodology is a tool for completing a project.

not a guarantee that things will go smoothly. And as with any tool, it may be employed for its intended use or as a weapon. A team that's overburdened with methodology is usually either too concerned with the means rather than the end or is using the process as a

bludgeon to further political enals. Meager management. Inexperienced or unskilled managers often doors their

projects to failure. Lacking leadership. Although we often have a difficult time defining good leadership, it's one of those things that we usually know when we see it. If a project lacks external and/or internal leadership, chances are good that per-

formance will flag. Inadequate technical skills. While this is not the most common cause of project failure, it's often a factor. Some teams are assigned without the background and training they need to succeed. Since we usually staff projects with whoever is available at the time rather than with the best fit, critical

skills are sometimes missing. Too many meetings. Project teams that spend too much time in meeting rooms are often doing so to make up for inadequate planning. Because they haven't thought things out in advance, they try to coordinate everything on the fly.

If you want to prevent project catastrophes, early problem detection is the most important thing you can do. By the time an impending disaster becomes obvious, recovery will be quite difficult.

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operating processes being

## Continued from page 1

cases, such as software development, asset management. computer operations monitoring and endance notification when problems occur. During a conference call Szygenda bluntly described IT

as "an immature industry" hecause of its lack of standardian tion. Ensuring that the vendors use the exact same processor? in delivering IT persions to GM was the first thing he set out to accomplish he said "We did that first because we have to make this look like one GM. not five or six or server IT comnonies," Szygenda said.

He added that he thinks at least some of the son-toninvolved with GM will use the

standardized processes on other eustomer accounts. Gartner Inc. analyst Linda Scardino said GM's push for standards among its outsourcing vendors is a hig step toward the "industrialization of IT" for delivering services to users. "I think it will be influ-

ential," she said. "We all have been watching and waiting to use what GM is going to do." For users, increased standardization could make services benchmarking easier, which in turn could lead to lower contract costs, said Robert McNeil, an analyst at Forroster Personal las McNeil added that GMV decision to rely more heavily on services vendors other than EDS means "the death of sole-

source delivery." Using multiple vendors to a greater extent will give CM added flexibility drive more competition for its husiness and help it manage the risks associated with outsourcing IT work he said Another decision by GM that could sway other companies is the signing of five-year contracts, McNeil said, GM's

firm was for 10 years. That

Setting Standards GM is also creating a structure for ensuring that the new procedures are followed For initial agreement with FDS after spinning off the services

instance, one of Cappemini's IT roles at GM will be manage ing application development and integration across the automaker's business units

said foe Kovach, a Cappemini vice president who manages the firm's GM contracts. Each vendor will have responsibility for applications at specific business units, but Cappemini will ensure that all the work follows the standards see by GM. Kovach said. The goals

are to reduce cost and improve functionality for GM, he said The requirement that yendors cooperate on standards sometimes presented a chal-

lenge, said lim Angers, who manages HP's business with GM. In working with other vendors, "you feel like you are sharing how you actually man age clients," Angers said. But.

he added HD and the other vendors needed to make it work if we were going to have good transitions and great interconnects between the communities." GM said the conversation

process will continue later in the year when it awards now relecommunications contracts to replace existing ones due to expere at year's end

The company added that the rest of the planned IT contracts will be awarded over the next five years "as a part of the natural business process," as it masesses spending needs for hard ware and software purchases and the development and doployment of new systems.

## EDS Remains GM's Top Vendor but Loses Some Ground EDS SAID it won about 70% of the

individual IT services contracts it competed for at GM as part of the two year bidding process. However, the amount of work that the services firm does for GM will shrink some-

what under the new deels Plano, Toxas-based EDS expects. \$1.2 billion to \$1.4 billion in annual revenue from GM through the new contracts averded last week and other business that wasn't part of the bidding process, in como its yearly revenue is about \$1.8 billion under its current contract with the automaker, EDS was owned by 6M

Hewlett-Packard said it will reonce more than \$200 million worth of services contracts from GM over the next live years: IBM put its share at up to \$500 million, while Covernt and Cappemint dign't disclose the expected value of their contracts.

Waro. the only offshore services provider selected by GM, sold it asneither 00002 bands to summer stoom from the new contracts. The Bancoiore, India-based company already does software development work for GM, with revenue from the existing deals totaling about \$30 million over the past four quarters. To handle the hanner westload

Wioro plans to increase the number of employees assigned to RM projects from 500 to 1,000, said Sudio Benerore, president of the enterprise solutions division at the company's Wigro Technologies unit Future work will be done both at ISM

sites and Wipro's offshore facilities. Organia end GM CXO Ratch Saygends seed the increased business awarded to Wipro doesn't signal a big shift by the automaker toward offshore IT work. Some of GM's other IT carvious providers also do work menses now "I don't think it's moving any resources. he said. "We are already there."

Cost savings generated through the bidding process will reduce (Mrs. spending rate by IT services below the projected five-year, \$15 billion level according to the company. But Szvenda said that any savings may be relovested in new IT projects New that the many IT reporter contracts have been awarded. GM will focus on ensuring a smooth transition over the next has months Shopenda said. He added that his pomany goals are to punit you done.

tions to GM's business and to make sure that the IT efforts hely support the recommend's plobal powerhouse - PATRICK THIRDDE ALL WITH JOHN BIRETED OF THE 106 NEWS SERVICE

## Group Crafts Standards for Evaluating Outsourcers

Six large U.S. banks, an industry group and four major accounting firms joined forces in early 2004 to create standards for assessing the security practices of outsourcine

vendors that work with finaneial services firms. The goal was to create consistent standards for use in evaluating the controls that outsourcing vendors use to protect sensitive data said Faith Boettger, a senior consultant at BiTS, the technology

arm of the Washington-based Financial Services Roundtable. The standards are now available to the financial services community, following a trial of the program undertaken by five service providers.

including IBM, Acxiom Corp. and First Data Corn. The standards program,

called the Financial Institution Shared Assessments Program. was developed by BITS. Bank of America Corp., The Bank of New York Co., Citigroup Inc., JPMorgan Chase & Co., U.S.

Bancorp and Wells Fargo & Co. Accounting firms Deloine & Touche LLP KPMG International, Pricewaterhouse-Coopers and Frost & Voorse

International serve as techni cal advisors for the program The enidelines can be used to evaluate an outsourcer's controls for access seem classification, personnel security. physical and environmental security communications busi-

ness continuity and regulatory compliance, Boettger said The group expects that the

standards will result in improved security and risk-management practices, she said. The program will also give auditing firms standard criteria for measuring the security practices of different service

providers, she added. \*RITS member companies have for a long time been focused on looking at the management of risk within

outsourcing relationships." Boettger said. The new programs should help such com panies better meet their reus-

latory and risk management requirements, she explained. loe Duffy, lead managing pariner for the performance improvement practice at PricewaterhouseCoopers, said the initiative is an example of the private sector coming together to address information secu-

rity issues at a time of belobe. ened regulatory oversight. "What is groundbreaking here is the fact that industry. the accounting profession and the supplier community are coming together and agreeing" FRANK HAVES . EDANKIV SDEAKING

## Creative Bungling

HE BOSTON GLOBE managed to expose as many as 240.000 subscribers to identity theft last week — no hackers or viruses required. Here's how: The Globe shares a computer system with a sister newspaper in suburban Worcester. Mass., the Telegram & Gazette, On Jan. 29. the Telegram & Gazette sent 9,000 bundles of Sunday papers to retailers and delivery people wrapped in recycled office paper. But some of that recycled paper happened to be printouts that included subscribers' credit card numbers and checking account information. Is that a creative way of violating customer privacy, or what?

The Globe/Telegram & Gazette snafu followed two incidents in which other companies' customer information was stolen from employees' cars. A thief broke into a car in a suburb of Portland, Ore., and stole backup disks containing information on 365,000 nationts of Providence Health System, a West Coast medical group. Another smash-and-grab thief stole a laptop belonging to an employee of Americaise Financial that contained unencrypted data on ISS,000 customers.

Here's the scary part: In each case except the Ameriprise incident, the information was handled according to standard operating procedures. The recycling was approved. The home-stored backuns were SOP. Even the Ameriprise employee was allowed to have the data on a laptop as long as it was encrypted, but the employee failed to

follow encryption procedures and was fired for it. And here's the scarier part. Even though data security is IT's job, this isn't a problem that IT on solve.

Why not? Because non-IT employees really are creative. They're always looking for better, faster. cheaper ways of doing their jobs. That includes reusing paper from discarded printouts. And storing backups off-site at employees' homes. And, of course, taking work home on lantons

They'll always come up with new ways of exposing data that we haven't thought of. Not on purpose; they're not trying to put customers or the business at risk. But data security and customer privacy just aren't topof-mind for them. The gap between what concerns us (protecting data) and what they worry about (doing business) is just too great.

What can IT do? We could try to lock down all that data: restrict access, prevent printing, block local storage. Within limits, that's a good approach. After all, how many employees really need long lists of customers' Social Security and credit card numbers? Tagging such information as need-to-know and blocking its

use in routine reports is good security practice But that's not enough. We also need to get creative. We need to find ways to get employees thinkine about data security - and make it easi-

er for them to keep data secure Ask yourself: How easy do you make it for emplayers to get just the data they need in reported How easily can they encrypt that data and keep it encrypted every second it's not in immediate use? Is sensitive data clearly marked so confidential reports won't be mistaken for safe-to-recycle office paper? Are outdated practices like employees carrying home backups still being used in some departments?

How often do you talk with employees about data security? Not send e-mail - talk. And not in general terms, but about how it directly applies to their work processes. How much of the security-talk time is for them to ask questions and make suggestions? How quickly do you follow up so they see results?

In short, how well are you harnessing that non-IT-employee creativity to make data more secure instead of putting it further

ot rick? IT can't solve all data security problems. Not today, when so much data is in the hands of employees who need it to do their jobs.

But by getting those employees to make data security a priority - and then beloing them to make it a reality - we can close that security gap. Our employees will be on our side. Our customers' privacy will be

protected And we'll be a lot less likely to read about our troubles in the Sun-

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